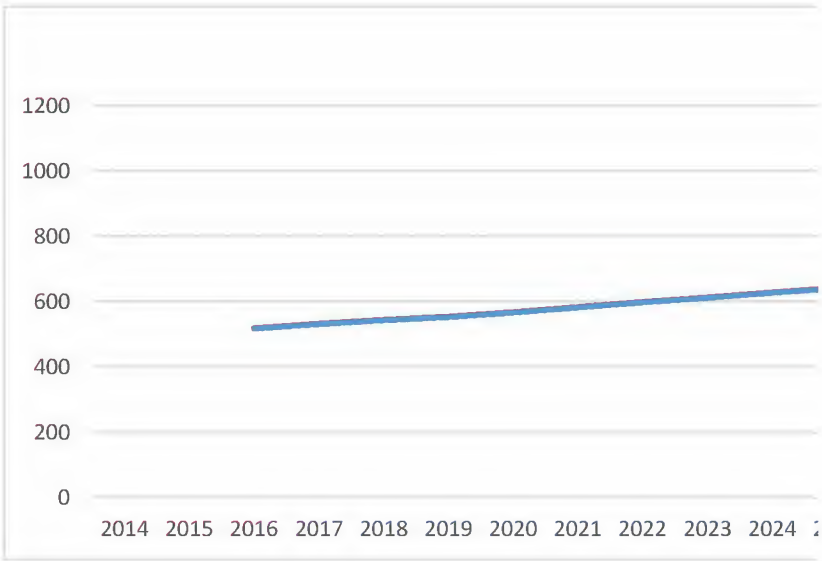
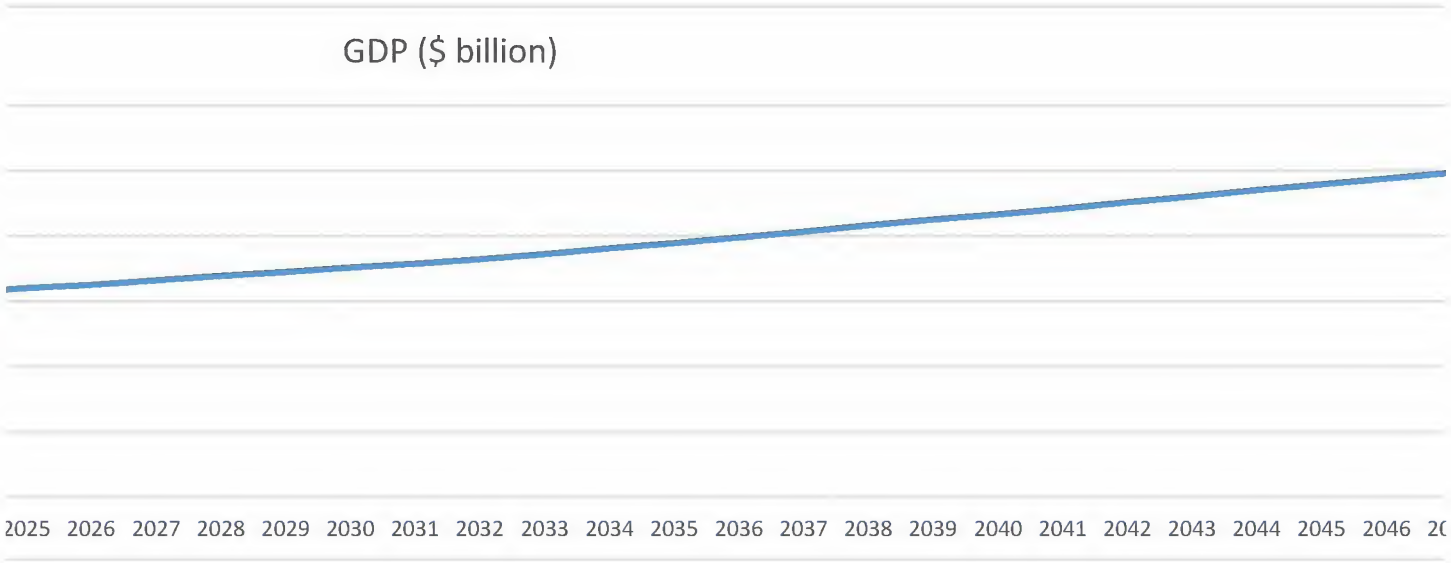


Historical data (in RED) from EIA State Energy Data System (SEDS)  
North Carolina profile  
<https://www.eia.gov/state/print.php?sid=NC>



Trends starting in 2016 are based on AEO 2017 in the referenced tabs (GDP and state-wide CO2 from the South Atlantic  
<https://www.eia.gov/outlooks/aeo/data/browser/>

GDP (\$ billion)  
CO2 emissions - state wide (MMTCO2)  
CO2 emissions - electric power (MMTCO2)



c region tab,

2014 2015

127 112.7  
57 53.8



147 2048 2049

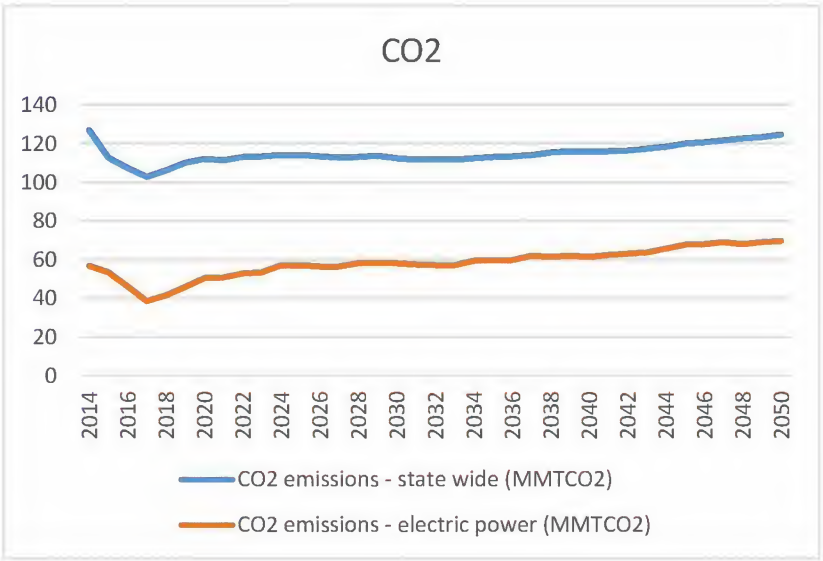
State-wide CO2 emissions approximation for 2015 (in BLUE) based on EIA's AEO 2016 trend in South Atlantic region emis:

electric power CO2 from the Virginia/Carolina region of the NEMS electricity market module)

2016  
\$517.9  
107.5  
46.4



2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
\$532.3	\$544.2	\$554.1	\$567.4	\$583.0	\$598.7	\$613.2	\$628.0	\$641.4	\$652.6	\$664.7	\$678.4	\$691.6
102.8	106.4	110.2	112.3	111.7	113.1	113.5	114.3	114.1	113.6	113.0	113.3	113.7
38.9	41.8	46.0	50.8	50.9	53.0	53.8	57.2	57.2	56.8	56.7	58.2	58.7



2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
\$704.3	\$716.9	\$730.1	\$745.6	\$762.8	\$779.9	\$796.8	\$814.4	\$833.8	\$851.5	\$868.0	\$885.3	\$903.6
112.6	112.0	112.1	112.1	112.5	113.3	113.7	114.4	115.5	116.1	116.0	116.1	116.4
58.3	57.6	57.4	57.3	59.6	59.9	59.9	62.2	61.7	62.2	61.7	62.6	63.2

2043	2044	2045	2046	2047	2048	2049	2050
\$922.6	\$941.1	\$959.4	\$977.5	\$994.9	\$1,012.1	\$1,030.8	\$1,049.5
117.5	118.6	120.1	120.8	121.8	122.9	123.6	124.7
63.9	65.8	67.9	68.2	69.2	68.4	69.1	69.8

Energy Consumption by Sector and Source

[https://www.eia.gov/outlooks/aeo/data/browser/#/?id=2-AEO2017&region=1-5&cases=ref\\_no\\_cpp&start=2015&end=2017](https://www.eia.gov/outlooks/aeo/data/browser/#/?id=2-AEO2017&region=1-5&cases=ref_no_cpp&start=2015&end=2017)

Mon Oct 02 2017 15:10:51 GMT-0400 (Eastern Daylight Time)

Source: U.S. Energy Information Administration

Residential

Propane

Kerosene

Distillate Fuel Oil

Petroleum and Other Liquids Subtotal

Natural Gas

Renewable Energy

Electricity

Delivered Energy

Electricity Related Losses

Total

Commercial

Propane

Motor Gasoline

Kerosene

Distillate Fuel Oil

Residual Fuel Oil

Petroleum and Other Liquids Subtotal

Natural Gas

Coal

Renewable Energy

Electricity

Delivered Energy

Electricity Related Losses

Total

Industrial

Liquefied Petroleum Gases and Other

Motor Gasoline

Distillate Fuel Oil

Residual Fuel Oil

Petrochemical Feedstocks

Other Petroleum

Petroleum and Other Liquids Subtotal

Natural Gas

Natural-Gas-to-Liquids Heat and Power

Lease and Plant Fuel

Natural Gas Liquefaction for Export

Natural Gas Subtotal

Metallurgical Coal

Other Industrial Coal

Coal-to-Liquids Heat and Power

Net Coal Coke Imports



2050&f=A&linechart=ref\_no\_cpp-d120816a.3-2-AEO2017.1-5&map=ref\_no\_cpp-d120816a.4-2-AEO2017.1-5&sourcekey=

full name

Energy Use: Residential: Propane: Reference case without Clean Power Plan  
Energy Use: Residential: Kerosene: Reference case without Clean Power Plan  
Energy Use: Residential: Distillate Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Residential: Liquid Fuels Subtotal: Reference case without Clean Power Plan  
Energy Use: Residential: Natural Gas: Reference case without Clean Power Plan  
Energy Use: Residential: Renewable Energy: Reference case without Clean Power Plan  
Energy Use: Residential: Electricity: Reference case without Clean Power Plan  
Energy Use: Residential: Delivered Energy: Reference case without Clean Power Plan  
Energy Use: Residential: Electricity Related Losses: Reference case without Clean Power Plan  
Energy Use: Residential: Total: Reference case without Clean Power Plan

Energy Use: Commercial: Propane: Reference case without Clean Power Plan  
Energy Use: Commercial: Motor Gasoline: Reference case without Clean Power Plan  
Energy Use: Commercial: Kerosene: Reference case without Clean Power Plan  
Energy Use: Commercial: Distillate Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Commercial: Residual Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Commercial: Liquid Fuels Subtotal: Reference case without Clean Power Plan  
Energy Use: Commercial: Natural Gas: Reference case without Clean Power Plan  
Energy Use: Commercial: Coal: Reference case without Clean Power Plan  
Energy Use: Commercial: Renewable Energy: Reference case without Clean Power Plan  
Energy Use: Commercial: Electricity: Reference case without Clean Power Plan  
Energy Use: Commercial: Delivered Energy: Reference case without Clean Power Plan  
Energy Use: Commercial: Electricity Related Losses: Reference case without Clean Power Plan  
Energy Use: Commercial: Total: Reference case without Clean Power Plan

Energy Use: Industrial: Liquefied Petroleum Gases: Reference case without Clean Power Plan  
Energy Use: Industrial: Motor Gasoline: Reference case without Clean Power Plan  
Energy Use: Industrial: Distillate Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Industrial: Residual Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Industrial: Petrochemical Feedstocks: Reference case without Clean Power Plan  
Energy Use: Industrial: Other Petroleum: Reference case without Clean Power Plan  
Energy Use: Industrial: Liquid Fuels Subtotal: Reference case without Clean Power Plan  
Energy Use: Industrial: Natural Gas: Reference case without Clean Power Plan  
Energy Use: Industrial: Natural-Gas-to-Liquids Heat and Power: Reference case without Clean Power Plan  
Energy Use: Industrial: Lease and Plant Fuel: Reference case without Clean Power Plan  
Energy Use: Industrial: Liquefaction: Reference case without Clean Power Plan  
Energy Use: Industrial: Natural Gas Subtotal: Reference case without Clean Power Plan  
Energy Use: Industrial: Metallurgical Coal: Reference case without Clean Power Plan  
Energy Use: Industrial: Other Industrial Coal: Reference case without Clean Power Plan  
Energy Use: Industrial: Coal-to-Liquids Heat and Power: Reference case without Clean Power Plan  
Energy Use: Industrial: Net Coal Coke Imports: Reference case without Clean Power Plan

api key	units	2015	2016	2017
2-AEO2017.2.				
2-AEO2017.3.ref_no_cpp-d120816a	quads	0.062241	0.065449	0.065101
2-AEO2017.4.ref_no_cpp-d120816a	quads	0.001686	0.001686	0.002186
2-AEO2017.5.ref_no_cpp-d120816a	quads	0.037383	0.029301	0.039634
2-AEO2017.6.ref_no_cpp-d120816a	quads	0.10131	0.096436	0.106921
2-AEO2017.7.ref_no_cpp-d120816a	quads	0.452122	0.455025	0.458016
2-AEO2017.8.ref_no_cpp-d120816a	quads	0.081493	0.075523	0.073916
2-AEO2017.9.ref_no_cpp-d120816a	quads	1.217717	1.237169	1.199449
2-AEO2017.10.ref_no_cpp-d120816a	quads	1.852642	1.864153	1.838301
2-AEO2017.11.ref_no_cpp-d120816a	quads	2.037339	1.827734	1.656002
2-AEO2017.12.ref_no_cpp-d120816a	quads	3.889981	3.691887	3.494303
2-AEO2017.14.				
2-AEO2017.15.ref_no_cpp-d120816a	quads	0.03469	0.043716	0.040908
2-AEO2017.16.ref_no_cpp-d120816a	quads	0.011596	0.012281	0.010982
2-AEO2017.17.ref_no_cpp-d120816a	quads	0.000345	0.001492	0.000879
2-AEO2017.18.ref_no_cpp-d120816a	quads	0.055022	0.066763	0.072153
2-AEO2017.19.ref_no_cpp-d120816a	quads	0.000629	0.005826	0.003546
2-AEO2017.20.ref_no_cpp-d120816a	quads	0.102281	0.130078	0.128467
2-AEO2017.21.ref_no_cpp-d120816a	quads	0.385673	0.385234	0.389083
2-AEO2017.22.ref_no_cpp-d120816a	quads	0.004709	0.005306	0.005466
2-AEO2017.23.ref_no_cpp-d120816a	quads	0.019821	0.019821	0.019821
2-AEO2017.24.ref_no_cpp-d120816a	quads	1.058333	1.066628	1.049862
2-AEO2017.25.ref_no_cpp-d120816a	quads	1.570817	1.607067	1.592699
2-AEO2017.26.ref_no_cpp-d120816a	quads	1.770676	1.575785	1.449477
2-AEO2017.27.ref_no_cpp-d120816a	quads	3.341493	3.182852	3.042177
2-AEO2017.29.				
2-AEO2017.30.ref_no_cpp-d120816a	quads	0.022726	0.02286	0.023695
2-AEO2017.31.ref_no_cpp-d120816a	quads	0.037787	0.03793	0.038028
2-AEO2017.32.ref_no_cpp-d120816a	quads	0.147187	0.139953	0.142946
2-AEO2017.33.ref_no_cpp-d120816a	quads	0.006917	0.009979	0.007641
2-AEO2017.34.ref_no_cpp-d120816a	quads			
2-AEO2017.35.ref_no_cpp-d120816a	quads	0.213537	0.214851	0.219504
2-AEO2017.36.ref_no_cpp-d120816a	quads	0.428154	0.425572	0.431814
2-AEO2017.37.ref_no_cpp-d120816a	quads	0.528367	0.544196	0.563058
2-AEO2017.38.ref_no_cpp-d120816a	quads			
2-AEO2017.39.ref_no_cpp-d120816a	quads	0.065375	0.048132	0.043256
2-AEO2017.40.ref_no_cpp-d120816a	quads			
2-AEO2017.41.ref_no_cpp-d120816a	quads	0.593741	0.592328	0.606314
2-AEO2017.42.ref_no_cpp-d120816a	quads	0.050271	0.048649	0.050798
2-AEO2017.43.ref_no_cpp-d120816a	quads	0.118699	0.114714	0.112819
2-AEO2017.45.ref_no_cpp-d120816a	quads			
2-AEO2017.46.ref_no_cpp-d120816a	quads	-0.003795	-0.000351	0.000879

2018	2019	2020	2021	2022	2023	2024	2025
0.064311	0.063695	0.06332	0.063171	0.062921	0.062686	0.062574	0.062511
0.002056	0.001941	0.00186	0.001803	0.00175	0.001703	0.00166	0.001616
0.038448	0.037165	0.036147	0.035283	0.034473	0.03372	0.033031	0.032328
0.104815	0.102801	0.101327	0.100257	0.099145	0.098109	0.097264	0.096455
0.459201	0.461534	0.464107	0.466539	0.468607	0.470979	0.473464	0.47541
0.075248	0.077446	0.077985	0.077748	0.077135	0.076335	0.075452	0.074632
1.206019	1.201375	1.198654	1.203169	1.213133	1.225204	1.238183	1.251013
1.845283	1.843156	1.842074	1.847713	1.858019	1.870627	1.884363	1.897509
1.747523	1.876913	1.975037	1.983285	2.019488	2.021652	2.038564	2.035024
3.592806	3.720069	3.81711	3.830998	3.877508	3.892279	3.922928	3.932533
0.040471	0.041065	0.041778	0.042493	0.042954	0.043586	0.04437	0.045193
0.011226	0.011203	0.011317	0.011449	0.011654	0.011945	0.01224	0.01251
0.000851	0.000893	0.000956	0.001022	0.001077	0.001137	0.001196	0.001247
0.069437	0.066629	0.064565	0.062871	0.062746	0.062566	0.062366	0.062049
0.002204	0.002207	0.002694	0.003382	0.003189	0.003063	0.003006	0.002879
0.124189	0.121997	0.121312	0.121217	0.12162	0.122297	0.123179	0.123879
0.388875	0.388614	0.388878	0.390502	0.391565	0.392907	0.394054	0.394898
0.005622	0.00577	0.005923	0.006082	0.006083	0.006085	0.006088	0.006087
0.019821	0.019821	0.019821	0.019821	0.019821	0.019821	0.019821	0.019821
1.053456	1.053549	1.05432	1.058377	1.066215	1.076122	1.087075	1.098002
1.591964	1.589751	1.590253	1.596	1.605304	1.617232	1.630217	1.642686
1.526459	1.645963	1.737216	1.744613	1.774915	1.775659	1.789778	1.786122
3.118423	3.235714	3.327469	3.340613	3.38022	3.392891	3.419995	3.428808
0.023568	0.024846	0.0254	0.025975	0.026801	0.027548	0.028087	0.028491
0.038411	0.038668	0.038777	0.03873	0.038757	0.038882	0.038993	0.039017
0.148476	0.153803	0.156872	0.159252	0.162158	0.165385	0.16728	0.168404
0.007638	0.008532	0.009354	0.009245	0.009255	0.00955	0.009761	0.009768
0.223711	0.227025	0.219258	0.219844	0.222268	0.226924	0.229517	0.230888
0.441805	0.452874	0.449661	0.453046	0.459239	0.468289	0.473638	0.476568
0.587526	0.606652	0.614199	0.628811	0.644341	0.655027	0.66282	0.668458
0.044195	0.04634	0.048048	0.051234	0.052414	0.053866	0.054177	0.05335
0.015712	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.647433	0.679385	0.688639	0.706438	0.723148	0.735287	0.743391	0.748201
0.049531	0.049998	0.052145	0.055259	0.057084	0.058425	0.059382	0.059686
0.115157	0.118024	0.119845	0.122903	0.126212	0.128366	0.128931	0.128675
0.000389	0.000683	0.000745	0.00098	0.000843	0.001077	0.001133	0.00122

2026	2027	2028	2029	2030	2031	2032
0.062443	0.062332	0.062195	0.062114	0.062011	0.061809	0.061587
0.001574	0.001534	0.001498	0.001463	0.001427	0.00139	0.001354
0.031648	0.031018	0.030413	0.029832	0.02923	0.028638	0.028079
0.095664	0.094884	0.094106	0.093409	0.092668	0.091836	0.09102
0.477048	0.477784	0.478839	0.480378	0.481653	0.482654	0.483666
0.07377	0.072761	0.07151	0.070374	0.069327	0.068467	0.067703
1.263663	1.276922	1.290072	1.302646	1.3135	1.32489	1.336038
1.910145	1.922351	1.934527	1.946806	1.957147	1.967848	1.978427
2.023986	1.999407	2.027761	2.051602	2.023579	2.006622	2.035194
3.934131	3.921758	3.962288	3.998408	3.980726	3.974469	4.01362
0.045923	0.046515	0.047275	0.048055	0.048668	0.049066	0.049617
0.012785	0.013086	0.013401	0.013687	0.013952	0.014211	0.014466
0.001301	0.001353	0.001417	0.001471	0.001519	0.001565	0.001609
0.061758	0.061544	0.061436	0.061316	0.061103	0.060829	0.060556
0.002806	0.002824	0.002918	0.002898	0.002814	0.002719	0.002619
0.124572	0.125323	0.126448	0.127428	0.128055	0.12839	0.128865
0.395546	0.395199	0.395858	0.39737	0.398876	0.400461	0.402647
0.006085	0.006085	0.006083	0.006084	0.006082	0.006081	0.006081
0.019821	0.019821	0.019821	0.019821	0.019821	0.019821	0.019821
1.107499	1.117842	1.12869	1.139787	1.146034	1.153474	1.162192
1.653523	1.66427	1.6769	1.69049	1.698869	1.708227	1.719606
1.773862	1.75032	1.774097	1.795108	1.765581	1.747002	1.770372
3.427384	3.41459	3.450997	3.485597	3.464449	3.455229	3.489978
0.028996	0.02916	0.029291	0.029523	0.029812	0.030079	0.03029
0.03898	0.038787	0.038751	0.038755	0.038689	0.038606	0.038554
0.169164	0.169724	0.16997	0.170336	0.170789	0.171051	0.170882
0.009905	0.010075	0.010183	0.010185	0.010077	0.010029	0.009803
0.232362	0.23478	0.238557	0.242636	0.24668	0.251159	0.254252
0.479407	0.482526	0.486752	0.491435	0.496047	0.500925	0.50378
0.673733	0.676048	0.675891	0.677798	0.680487	0.681842	0.685332
0.050814	0.044511	0.040603	0.039123	0.036387	0.035323	0.034802
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.750941	0.746952	0.742888	0.743314	0.743268	0.743558	0.746527
0.059408	0.05887	0.058248	0.057834	0.05839	0.057597	0.058555
0.128014	0.127575	0.125986	0.124283	0.122847	0.120682	0.119623
0.00125	0.001376	0.001456	0.001547	0.001669	0.001768	0.001915

2033	2034	2035	2036	2037	2038	2039
0.061424	0.061341	0.061295	0.061224	0.061177	0.061115	0.061064
0.001321	0.001291	0.00126	0.001229	0.001201	0.001172	0.001145
0.027564	0.027081	0.026608	0.026135	0.025684	0.025245	0.024828
0.090309	0.089713	0.089163	0.088588	0.088061	0.087532	0.087036
0.484353	0.485387	0.486267	0.487188	0.487509	0.487877	0.48886
0.066635	0.065712	0.064791	0.0642	0.063538	0.062796	0.062199
1.347224	1.359392	1.372168	1.385308	1.397839	1.411273	1.42476
1.988521	2.000204	2.012389	2.025285	2.036948	2.049479	2.062855
2.041619	2.051775	2.075847	2.102567	2.104885	2.119548	2.125898
4.03014	4.051979	4.088236	4.127852	4.141833	4.169027	4.188753
0.050378	0.051013	0.051743	0.052203	0.052852	0.05339	0.053842
0.01478	0.015053	0.015343	0.015579	0.015871	0.01616	0.016422
0.001673	0.001722	0.001777	0.001817	0.001874	0.001926	0.001973
0.060435	0.060316	0.060207	0.059994	0.059846	0.059762	0.059661
0.002758	0.002723	0.002765	0.002643	0.002705	0.002752	0.002775
0.130024	0.130826	0.131835	0.132235	0.133148	0.13399	0.134673
0.40495	0.40767	0.410189	0.412671	0.414427	0.4164	0.418938
0.00608	0.006079	0.006077	0.006075	0.006072	0.006069	0.006066
0.019821	0.019821	0.019821	0.019821	0.019821	0.019821	0.019821
1.171383	1.181442	1.192261	1.203604	1.215457	1.228035	1.24138
1.732258	1.745839	1.760184	1.774407	1.788926	1.804315	1.820878
1.775145	1.78319	1.803679	1.826784	1.830252	1.844349	1.852275
3.507403	3.529029	3.563863	3.601191	3.619177	3.648664	3.673153
0.030389	0.0307	0.03095	0.031204	0.031409	0.031673	0.032006
0.038478	0.038529	0.038588	0.038637	0.038685	0.038777	0.038861
0.17097	0.171892	0.173077	0.173886	0.17472	0.175776	0.176594
0.009759	0.00954	0.009539	0.009391	0.009436	0.009401	0.009418
0.257662	0.261935	0.266421	0.270851	0.275349	0.280384	0.285338
0.507258	0.512597	0.518576	0.523968	0.5296	0.536012	0.542218
0.68801	0.693628	0.697436	0.701412	0.705016	0.710157	0.715571
0.034737	0.03471	0.034638	0.034935	0.033743	0.032972	0.033552
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.74914	0.754731	0.758468	0.762741	0.765152	0.769522	0.775516
0.060327	0.061923	0.063505	0.064514	0.066602	0.069233	0.070775
0.119283	0.11911	0.118981	0.118629	0.118881	0.119384	0.119412
0.002121	0.002325	0.002513	0.002643	0.00293	0.003238	0.003456

2040	2041	2042	2043	2044	2045	2046	2047
0.061056	0.061104	0.061148	0.061246	0.061366	0.061527	0.061671	0.061826
0.001118	0.001092	0.001068	0.001044	0.001021	0.001	0.000978	0.000955
0.024422	0.024035	0.023653	0.023291	0.022934	0.022595	0.022249	0.021904
0.086595	0.086232	0.085869	0.085581	0.085321	0.085122	0.084898	0.084685
0.490295	0.491899	0.493499	0.495528	0.49777	0.500534	0.503156	0.505889
0.061678	0.061036	0.060285	0.059577	0.058916	0.058318	0.057758	0.057304
1.431054	1.437304	1.443705	1.451567	1.460449	1.469673	1.47875	1.487574
2.069622	2.076471	2.083359	2.092253	2.102455	2.113647	2.12456	2.135453
2.104214	2.085547	2.082269	2.109034	2.096243	2.126556	2.13473	2.167311
4.173837	4.162018	4.165628	4.201287	4.198698	4.240203	4.25929	4.302764
0.054474	0.055144	0.055757	0.056434	0.057068	0.057708	0.058312	0.058935
0.016698	0.016986	0.017289	0.017583	0.017884	0.018187	0.01848	0.018767
0.002023	0.002081	0.002138	0.002193	0.002248	0.002304	0.002354	0.002399
0.059547	0.059488	0.05948	0.059496	0.059505	0.059494	0.059425	0.059305
0.002787	0.002813	0.002919	0.003034	0.003104	0.003176	0.003207	0.003214
0.135529	0.136512	0.137583	0.13874	0.139809	0.140869	0.141777	0.14262
0.421941	0.425162	0.428615	0.432541	0.437078	0.441979	0.446827	0.451857
0.006063	0.006062	0.006061	0.00606	0.006059	0.006058	0.006058	0.006057
0.019821	0.019821	0.019821	0.019821	0.019821	0.019821	0.019821	0.019821
1.254351	1.268291	1.282597	1.297833	1.313625	1.329779	1.346603	1.36359
1.837706	1.855849	1.874677	1.894995	1.916393	1.938506	1.961086	1.983945
1.844391	1.840307	1.849902	1.885667	1.885501	1.924135	1.943963	1.986673
3.682097	3.696155	3.724579	3.780663	3.801894	3.862641	3.905049	3.970618
0.032205	0.03228	0.032304	0.032401	0.032493	0.032567	0.032581	0.032841
0.038888	0.038912	0.038965	0.039062	0.039142	0.039201	0.039272	0.039381
0.177283	0.178144	0.178987	0.180292	0.181643	0.182841	0.184017	0.185107
0.009352	0.009267	0.009437	0.009581	0.009675	0.009784	0.009857	0.009945
0.290131	0.294959	0.299776	0.304978	0.310139	0.31529	0.320652	0.326004
0.547859	0.553562	0.559468	0.566313	0.573092	0.579684	0.586379	0.593279
0.720667	0.724398	0.725541	0.728413	0.731773	0.734961	0.737712	0.742414
0.034444	0.035176	0.036243	0.037696	0.03915	0.041854	0.045194	0.050113
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.781504	0.785967	0.788178	0.792503	0.797316	0.803208	0.809299	0.81892
0.072845	0.074804	0.073897	0.07353	0.073347	0.073513	0.074083	0.073979
0.119713	0.119992	0.119323	0.11902	0.118768	0.118503	0.118358	0.117932
0.003817	0.004155	0.004232	0.004421	0.004598	0.004774	0.005037	0.005184

2048	2049	2050 Growth (2016-2050)	
0.061976	0.062129	0.062281	-0.10%
0.000933	0.000912	0.000892	-1.90%
0.02157	0.021251	0.020936	-1.00%
0.084479	0.084293	0.084109	-0.40%
0.508638	0.511132	0.513413	0.40%
0.056831	0.056282	0.055799	-0.90%
1.495661	1.503773	1.511666	0.60%
2.145609	2.15548	2.164987	0.40%
2.188965	2.187835	2.188673	0.50%
4.334575	4.343314	4.35366	0.50%
0.059532	0.060132	0.060691	1.00%
0.019081	0.019396	0.019642	1.40%
0.002447	0.002501	0.002545	1.60%
0.059194	0.059127	0.059035	-0.40%
0.003251	0.003326	0.003314	-1.60%
0.143505	0.144482	0.145227	0.30%
0.457123	0.462128	0.46697	0.60%
0.006056	0.006054	0.006052	0.40%
0.019821	0.019821	0.019821	0.00%
1.381148	1.399334	1.41821	0.80%
2.007654	2.03182	2.056281	0.70%
2.021371	2.035887	2.053363	0.80%
4.029025	4.067707	4.109644	0.80%
0.033059	0.03329	0.033654	1.10%
0.039484	0.039583	0.039748	0.10%
0.186181	0.187316	0.18874	0.90%
0.01002	0.010199	0.010209	0.10%
0.331599	0.336866	0.34279	1.40%
0.600343	0.607253	0.615141	1.10%
0.747355	0.752597	0.759319	1.00%
0.054895	0.059061	0.062564	0.80%
0.026393	0.026393	0.026393	--
0.828642	0.838051	0.848277	1.10%
0.074738	0.074592	0.075701	1.30%
0.117725	0.117371	0.117396	0.10%
0.005484	0.005736	0.006013	--



Coal Subtotal  
Biofuels Heat and Coproducts  
Renewable Energy  
Electricity  
Delivered Energy  
Electricity Related Losses  
Total  
Transportation  
Propane  
Motor Gasoline  
of which: E85  
Jet Fuel  
Distillate Fuel Oil  
Residual Fuel Oil  
Other Petroleum  
Petroleum and Other Liquids Subtotal  
Pipeline Fuel Natural Gas  
Compressed / Liquefied Natural Gas  
Hydrogen  
Electricity  
Delivered Energy  
Electricity Related Losses  
Total  
Unspecified Sector  
Total  
Delivered Energy Consumption  
Liquefied Petroleum Gases and Other  
Motor Gasoline  
of which: E85  
Jet Fuel  
Kerosene  
Distillate Fuel Oil  
Residual Fuel Oil  
Petrochemical Feedstocks  
Other Petroleum  
Petroleum and Other Liquids Subtotal  
Natural Gas  
Natural-Gas-to-Liquids Heat and Power  
Lease and Plant Fuel  
Natural Gas Liquefaction for Export  
Pipeline Fuel Natural Gas  
Natural Gas Subtotal  
Metallurgical Coal  
Other Coal  
Coal-to-Liquids Heat and Power  
Net Coal Coke Imports  
Coal Subtotal



Energy Use: Industrial: Coal Subtotal: Reference case without Clean Power Plan  
Energy Use: Industrial: Biofuels Heat and Coproducts: Reference case without Clean Power Plan  
Energy Use: Industrial: Renewable Energy: Reference case without Clean Power Plan  
Energy Use: Industrial: Electricity: Reference case without Clean Power Plan  
Energy Use: Industrial: Delivered Energy: Reference case without Clean Power Plan  
Energy Use: Industrial: Electricity Related Losses: Reference case without Clean Power Plan  
Energy Use: Industrial: Total: Reference case without Clean Power Plan

Energy Use: Transportation: Propane: Reference case without Clean Power Plan  
Energy Use: Transportation: Motor Gasoline: Reference case without Clean Power Plan  
Energy Use: Transportation: E85: Reference case without Clean Power Plan  
Energy Use: Transportation: Jet Fuel: Reference case without Clean Power Plan  
Energy Use: Transportation: Distillate Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Transportation: Residual Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Transportation: Other Petroleum: Reference case without Clean Power Plan  
Energy Use: Transportation: Liquid Fuels Subtotal: Reference case without Clean Power Plan  
Energy Use: Transportation: Pipeline Fuel Natural Gas: Reference case without Clean Power Plan  
Energy Use: Transportation: Natural Gas: Reference case without Clean Power Plan  
Energy Use: Transportation: Hydrogen: Reference case without Clean Power Plan  
Energy Use: Transportation: Electricity: Reference case without Clean Power Plan  
Energy Use: Transportation: Delivered Energy: Reference case without Clean Power Plan  
Energy Use: Transportation: Electricity Related Losses: Reference case without Clean Power Plan  
Energy Use: Transportation: Total: Reference case without Clean Power Plan

Energy Use: Unspecified: Total: Reference case without Clean Power Plan

#### All Sectors

Energy Use: Delivered: All Sectors: Liquefied Petroleum Gases: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Motor Gasoline: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: E85: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Jet Fuel: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Kerosene: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Distillate Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Residual Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Petrochemical Feedstocks: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Other Petroleum: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Liquid Fuels Subtotal: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Natural Gas: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Natural-Gas-to-Liquids Heat and Power: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Lease and Plant Fuel: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Liquefaction: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Pipeline Natural Gas: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Natural Gas Subtotal: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Metallurgical Coal: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Other Coal: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Coal-to-Liquids Heat and Power: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Net Coal Coke Imports: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Coal Subtotal: Reference case without Clean Power Plan

2-AEO2017.47.ref_no_cpp-d120816a	quads	0.165175	0.163012	0.164496
2-AEO2017.48.ref_no_cpp-d120816a	quads	0.174471	0.184655	0.183556
2-AEO2017.49.ref_no_cpp-d120816a	quads	0.499755	0.488682	0.482937
2-AEO2017.50.ref_no_cpp-d120816a	quads	0.434578	0.430802	0.443146
2-AEO2017.51.ref_no_cpp-d120816a	quads	2.295875	2.285053	2.312263
2-AEO2017.52.ref_no_cpp-d120816a	quads	0.727085	0.636447	0.611824
2-AEO2017.53.ref_no_cpp-d120816a	quads	3.022959	2.921499	2.924087
2-AEO2017.56.				
2-AEO2017.57.ref_no_cpp-d120816a	quads	0.001941	0.002011	0.002295
2-AEO2017.58.ref_no_cpp-d120816a	quads	3.507222	3.558536	3.587766
2-AEO2017.59.ref_no_cpp-d120816a	quads	0.004686	0.007226	0.006217
2-AEO2017.60.ref_no_cpp-d120816a	quads	0.327458	0.327161	0.332665
2-AEO2017.61.ref_no_cpp-d120816a	quads	1.013063	0.999531	1.027148
2-AEO2017.62.ref_no_cpp-d120816a	quads	0.079003	0.104818	0.077956
2-AEO2017.63.ref_no_cpp-d120816a	quads	0.030134	0.030671	0.030987
2-AEO2017.64.ref_no_cpp-d120816a	quads	4.958821	5.022727	5.058816
2-AEO2017.65.ref_no_cpp-d120816a	quads	0.061565	0.056091	0.04919
2-AEO2017.66.ref_no_cpp-d120816a	quads	0.010643	0.012072	0.013787
2-AEO2017.67.ref_no_cpp-d120816a	quads	0.000057	0.000115	0.000181
2-AEO2017.68.ref_no_cpp-d120816a	quads	0.005047	0.005945	0.006907
2-AEO2017.69.ref_no_cpp-d120816a	quads	5.036132	5.096951	5.128881
2-AEO2017.70.ref_no_cpp-d120816a	quads	0.008443	0.008783	0.009537
2-AEO2017.71.ref_no_cpp-d120816a	quads	5.044575	5.105734	5.138418
2-AEO2017.73.				
2-AEO2017.77.ref_no_cpp-d120816a	quads	-0.112563	-0.104673	-0.13238
2-AEO2017.79.				
2-AEO2017.80.ref_no_cpp-d120816a	quads	0.121598	0.134036	0.131999
2-AEO2017.81.ref_no_cpp-d120816a	quads	3.479439	3.55194	3.558541
2-AEO2017.82.ref_no_cpp-d120816a	quads	0.004686	0.007226	0.006217
2-AEO2017.83.ref_no_cpp-d120816a	quads	0.368655	0.379592	0.37406
2-AEO2017.84.ref_no_cpp-d120816a	quads	0.002031	0.003178	0.003064
2-AEO2017.85.ref_no_cpp-d120816a	quads	1.17606	1.135251	1.186341
2-AEO2017.86.ref_no_cpp-d120816a	quads	0.086548	0.120623	0.089142
2-AEO2017.87.ref_no_cpp-d120816a	quads			
2-AEO2017.88.ref_no_cpp-d120816a	quads	0.243672	0.245521	0.250491
2-AEO2017.89.ref_no_cpp-d120816a	quads	5.478004	5.570141	5.593638
2-AEO2017.90.ref_no_cpp-d120816a	quads	1.376804	1.396527	1.423944
2-AEO2017.91.ref_no_cpp-d120816a	quads			
2-AEO2017.92.ref_no_cpp-d120816a	quads	0.065375	0.048132	0.043256
2-AEO2017.93.ref_no_cpp-d120816a	quads			
2-AEO2017.94.ref_no_cpp-d120816a	quads	0.061565	0.056091	0.04919
2-AEO2017.95.ref_no_cpp-d120816a	quads	1.503744	1.50075	1.51639
2-AEO2017.96.ref_no_cpp-d120816a	quads	0.050271	0.048649	0.050798
2-AEO2017.97.ref_no_cpp-d120816a	quads	0.123408	0.12002	0.118285
2-AEO2017.98.ref_no_cpp-d120816a	quads			
2-AEO2017.99.ref_no_cpp-d120816a	quads	-0.003795	-0.000351	0.000879
2-AEO2017.100.ref_no_cpp-d120816a	quads	0.169884	0.168318	0.169962

0.165077	0.168704	0.172735	0.179142	0.184139	0.187867	0.189446	0.189582
0.179154	0.179714	0.179441	0.179331	0.17976	0.179706	0.180502	0.18139
0.492371	0.497144	0.502581	0.512872	0.524602	0.536825	0.543113	0.544111
0.458898	0.474324	0.483702	0.495303	0.509827	0.522751	0.530668	0.535046
2.384737	2.452146	2.47676	2.526132	2.580716	2.630725	2.660758	2.674899
0.664944	0.741039	0.797002	0.816449	0.848703	0.862566	0.873701	0.870361
3.049681	3.193184	3.273762	3.342581	3.429419	3.493291	3.534459	3.545259
0.002296	0.002623	0.002752	0.002818	0.002835	0.002785	0.002749	0.002746
3.605849	3.590788	3.558993	3.515263	3.463631	3.399979	3.335041	3.266926
0.004076	0.004602	0.005147	0.005739	0.006291	0.01258	0.012524	0.012422
0.337286	0.341723	0.347124	0.35355	0.360077	0.366382	0.372704	0.378759
1.02709	1.027727	1.014462	1.01984	1.02572	1.028868	1.028559	1.023222
0.077444	0.077032	0.103394	0.107038	0.11127	0.11545	0.120003	0.124106
0.031178	0.03131	0.031334	0.031408	0.031499	0.031599	0.031721	0.031842
5.081143	5.071204	5.058059	5.029917	4.995033	4.945064	4.890778	4.827601
0.048745	0.046854	0.044675	0.044486	0.044092	0.044199	0.043569	0.042667
0.015223	0.01645	0.017795	0.01842	0.018951	0.019477	0.020129	0.020943
0.000365	0.000703	0.001195	0.001827	0.002536	0.003348	0.00422	0.005145
0.007926	0.0095	0.011534	0.014247	0.017352	0.020791	0.02451	0.028413
5.153403	5.144711	5.133259	5.108898	5.077964	5.032878	4.983205	4.924769
0.011485	0.014842	0.019004	0.023484	0.028886	0.034306	0.040353	0.04622
5.164888	5.159554	5.152263	5.132382	5.10685	5.067184	5.023558	4.970989
-0.123407	-0.113719	-0.111325	-0.109947	-0.10842	-0.106324	-0.104076	-0.101412
0.130646	0.132229	0.13325	0.134457	0.135511	0.136604	0.137781	0.13894
3.576471	3.561651	3.530792	3.488123	3.437872	3.376178	3.313076	3.246752
0.004076	0.004602	0.005147	0.005739	0.006291	0.01258	0.012524	0.012422
0.379488	0.384715	0.390795	0.39803	0.405378	0.412476	0.419593	0.42641
0.002907	0.002834	0.002816	0.002825	0.002828	0.00284	0.002855	0.002863
1.196856	1.207621	1.195346	1.20014	1.207546	1.21275	1.21347	1.20864
0.087287	0.087771	0.115442	0.119665	0.123714	0.128063	0.13277	0.136754
0.254889	0.258334	0.250592	0.251252	0.253767	0.258523	0.261238	0.26273
5.628545	5.635156	5.619034	5.594491	5.566616	5.527433	5.480783	5.423089
1.450824	1.47325	1.48498	1.504273	1.523463	1.53839	1.550467	1.559708
0.044195	0.04634	0.048048	0.051234	0.052414	0.053866	0.054177	0.05335
0.015712	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.048745	0.046854	0.044675	0.044486	0.044092	0.044199	0.043569	0.042667
1.559476	1.592836	1.604095	1.626387	1.646362	1.662848	1.674606	1.682118
0.049531	0.049998	0.052145	0.055259	0.057084	0.058425	0.059382	0.059686
0.12078	0.123793	0.125767	0.128985	0.132295	0.13445	0.135019	0.134762
0.000389	0.000683	0.000745	0.00098	0.000843	0.001077	0.001133	0.00122
0.170699	0.174473	0.178658	0.185224	0.190222	0.193952	0.195534	0.195669

0.188671	0.18782	0.18569	0.183664	0.182906	0.180048	0.180093
0.180439	0.180168	0.180715	0.180907	0.181536	0.179761	0.17959
0.543601	0.547639	0.550046	0.550984	0.550031	0.548828	0.547803
0.537804	0.540087	0.539971	0.539927	0.539464	0.538378	0.537742
2.680863	2.685193	2.686063	2.690231	2.693251	2.691496	2.695534
0.86139	0.845669	0.848738	0.850359	0.831099	0.815404	0.819144
3.542254	3.530862	3.534801	3.54059	3.52435	3.5069	3.514679
0.002735	0.002714	0.002731	0.002782	0.002834	0.002857	0.002904
3.201373	3.144395	3.097526	3.055579	3.016936	2.981738	2.951344
0.017077	0.020702	0.023478	0.027602	0.031335	0.033132	0.035639
0.384167	0.390433	0.397237	0.403528	0.409071	0.414835	0.420927
1.012191	1.004383	0.996257	0.988213	0.980841	0.9726	0.963961
0.127502	0.130852	0.134689	0.138556	0.142221	0.145926	0.149384
0.03193	0.03202	0.032114	0.032221	0.032299	0.032396	0.032504
4.759899	4.704797	4.660554	4.620879	4.584203	4.550353	4.521024
0.040965	0.037488	0.03558	0.034564	0.033027	0.03216	0.031805
0.02185	0.023004	0.024396	0.025814	0.027269	0.028666	0.030014
0.005987	0.006779	0.007488	0.008153	0.008798	0.009399	0.009944
0.032217	0.0358	0.039191	0.042445	0.045643	0.048685	0.051557
4.860918	4.807868	4.767209	4.731855	4.698941	4.669263	4.644343
0.051601	0.056055	0.061601	0.066849	0.070318	0.073736	0.078536
4.912519	4.863923	4.828811	4.798705	4.769259	4.742999	4.72288
-0.098351	-0.095637	-0.093073	-0.090658	-0.08847	-0.086307	-0.084162
0.140096	0.140721	0.141492	0.142474	0.143325	0.143811	0.144397
3.182984	3.12745	3.081953	3.041312	3.0038	2.969594	2.940127
0.017077	0.020702	0.023478	0.027602	0.031335	0.033132	0.035639
0.432498	0.439553	0.447213	0.454295	0.460535	0.467024	0.473883
0.002874	0.002888	0.002915	0.002934	0.002946	0.002954	0.002962
1.198233	1.190731	1.182753	1.174982	1.167806	1.159583	1.150596
0.140212	0.143751	0.14779	0.151638	0.155112	0.158674	0.161806
0.264292	0.266799	0.270671	0.274857	0.278979	0.283555	0.286756
5.361191	5.311893	5.274787	5.242493	5.212502	5.185195	5.160527
1.568178	1.572035	1.574984	1.58136	1.588286	1.593624	1.601658
0.050814	0.044511	0.040603	0.039123	0.036387	0.035323	0.034802
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.040965	0.037488	0.03558	0.034564	0.033027	0.03216	0.031805
1.68635	1.680427	1.67756	1.681441	1.684093	1.687499	1.694658
0.059408	0.05887	0.058248	0.057834	0.05839	0.057597	0.058555
0.134099	0.133659	0.132069	0.130367	0.128929	0.126764	0.125704
0.00125	0.001376	0.001456	0.001547	0.001669	0.001768	0.001915
0.194756	0.193905	0.191774	0.189748	0.188988	0.186129	0.186174

0.181731	0.183357	0.185	0.185786	0.188413	0.191855	0.193642
0.180132	0.180736	0.181301	0.181594	0.182101	0.182872	0.183588
0.549292	0.551826	0.554709	0.557438	0.562333	0.568239	0.572411
0.538869	0.542	0.544931	0.546887	0.549884	0.554392	0.557508
2.706422	2.725245	2.742984	2.758414	2.777483	2.802892	2.824885
0.816617	0.818058	0.824384	0.830044	0.828023	0.832624	0.831863
3.523039	3.543304	3.567368	3.588458	3.605505	3.635516	3.656749
0.002931	0.002993	0.003057	0.003133	0.003179	0.003226	0.003278
2.928955	2.91277	2.90035	2.888814	2.882027	2.881315	2.880714
0.03849	0.040447	0.042823	0.043608	0.043447	0.04204	0.040833
0.427563	0.434541	0.441832	0.449203	0.456447	0.464515	0.472251
0.959905	0.958706	0.960247	0.961331	0.964542	0.969671	0.974098
0.153318	0.157237	0.161465	0.164809	0.168177	0.171003	0.174116
0.032611	0.032736	0.032872	0.033018	0.033138	0.033291	0.033402
4.505283	4.498982	4.499823	4.500308	4.507511	4.523021	4.537859
0.031642	0.031577	0.031556	0.031803	0.031207	0.031104	0.031788
0.031406	0.032873	0.0344	0.035945	0.037441	0.038989	0.040759
0.01046	0.010954	0.011414	0.011818	0.012188	0.012538	0.012872
0.05436	0.05712	0.059755	0.062217	0.064554	0.066797	0.068975
4.633151	4.631505	4.636948	4.64209	4.6529	4.672448	4.692253
0.082378	0.086213	0.090398	0.09443	0.097206	0.10032	0.102918
4.715529	4.717718	4.727346	4.73652	4.750105	4.772768	4.795171
-0.082465	-0.081097	-0.07997	-0.078853	-0.078039	-0.077426	-0.076801
0.145122	0.146047	0.147045	0.147764	0.148617	0.149404	0.15019
2.918532	2.903071	2.891327	2.880346	2.874046	2.8737	2.873431
0.03849	0.040447	0.042823	0.043608	0.043447	0.04204	0.040833
0.481354	0.48921	0.497418	0.505716	0.513872	0.522955	0.531664
0.002994	0.003013	0.003038	0.003046	0.003074	0.003098	0.003117
1.146298	1.14551	1.147538	1.148662	1.151866	1.15714	1.161533
0.165835	0.1695	0.17377	0.176843	0.180318	0.183156	0.186309
0.290273	0.294672	0.299293	0.303868	0.308488	0.313675	0.318741
5.150409	5.151021	5.159428	5.166245	5.180281	5.203129	5.224985
1.608719	1.619558	1.628294	1.637217	1.644392	1.653423	1.664128
0.034737	0.03471	0.034638	0.034935	0.033743	0.032972	0.033552
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.031642	0.031577	0.031556	0.031803	0.031207	0.031104	0.031788
1.701492	1.712237	1.720881	1.730349	1.735735	1.743892	1.755861
0.060327	0.061923	0.063505	0.064514	0.066602	0.069233	0.070775
0.125363	0.125189	0.125058	0.124704	0.124953	0.125453	0.125478
0.002121	0.002325	0.002513	0.002643	0.00293	0.003238	0.003456
0.187811	0.189436	0.191077	0.191861	0.194485	0.197924	0.199709

0.196374	0.198951	0.197451	0.196971	0.196713	0.19679	0.197478	0.197095
0.18406	0.182927	0.182806	0.182523	0.18242	0.18199	0.181715	0.181403
0.57659	0.58217	0.588036	0.594775	0.600919	0.606593	0.611621	0.615074
0.560133	0.562317	0.564178	0.567139	0.569632	0.571607	0.573525	0.575652
2.846519	2.865893	2.880117	2.900224	2.920093	2.939872	2.960017	2.981423
0.823616	0.815928	0.813719	0.824017	0.817617	0.827091	0.827943	0.838692
3.670135	3.681822	3.693836	3.724241	3.73771	3.766963	3.78796	3.820115
0.003331	0.003371	0.003405	0.003455	0.003501	0.003557	0.003622	0.003682
2.882559	2.879287	2.88146	2.886365	2.893085	2.901308	2.910934	2.920508
0.038212	0.035735	0.031816	0.029166	0.026563	0.026609	0.029324	0.03215
0.47945	0.486862	0.494403	0.502067	0.509827	0.51782	0.525659	0.533217
0.977265	0.98232	0.988158	0.996445	1.005304	1.013325	1.021503	1.029236
0.176731	0.179526	0.182422	0.185459	0.188657	0.191742	0.194829	0.197814
0.03348	0.033571	0.033659	0.033745	0.03385	0.033979	0.034102	0.034198
4.552816	4.564938	4.583506	4.607536	4.634224	4.661731	4.69065	4.718655
0.03248	0.033245	0.033882	0.034781	0.035714	0.037154	0.038693	0.041097
0.042322	0.044036	0.045778	0.047584	0.049452	0.051331	0.053276	0.05528
0.013205	0.013484	0.01376	0.014028	0.014294	0.014534	0.014767	0.015009
0.071115	0.072961	0.074762	0.076494	0.078149	0.079672	0.08113	0.082551
4.711938	4.728663	4.751688	4.780424	4.811832	4.844422	4.878517	4.912592
0.104568	0.105867	0.107831	0.111141	0.112171	0.115282	0.11712	0.120272
4.816506	4.83453	4.859519	4.891564	4.924003	4.959704	4.995636	5.032864
-0.076233	-0.075666	-0.075293	-0.075121	-0.07502	-0.074801	-0.074586	-0.074368
0.151066	0.151899	0.152614	0.153535	0.154428	0.155358	0.156186	0.157285
2.875481	2.872539	2.874933	2.880063	2.886959	2.895363	2.9052	2.915021
0.038212	0.035735	0.031816	0.029166	0.026563	0.026609	0.029324	0.03215
0.539769	0.548114	0.556602	0.565231	0.573967	0.582966	0.591791	0.600299
0.003141	0.003173	0.003205	0.003237	0.003269	0.003304	0.003332	0.003354
1.164629	1.169717	1.175566	1.184186	1.193378	1.201641	1.209962	1.217735
0.18887	0.191606	0.194778	0.198074	0.201436	0.204703	0.207892	0.210973
0.323611	0.328531	0.333435	0.338723	0.343988	0.34927	0.354755	0.360203
5.246566	5.265578	5.291133	5.323049	5.357426	5.392605	5.429118	5.464871
1.675225	1.685494	1.693433	1.704067	1.716073	1.728804	1.740971	1.755441
0.034444	0.035176	0.036243	0.037696	0.03915	0.041854	0.045194	0.050113
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.03248	0.033245	0.033882	0.034781	0.035714	0.037154	0.038693	0.041097
1.768542	1.780308	1.789951	1.802937	1.81733	1.834205	1.851251	1.873043
0.072845	0.074804	0.073897	0.07353	0.073347	0.073513	0.074083	0.073979
0.125777	0.126054	0.125383	0.12508	0.124827	0.124561	0.124416	0.123989
0.003817	0.004155	0.004232	0.004421	0.004598	0.004774	0.005037	0.005184
0.202438	0.205013	0.203512	0.203031	0.202772	0.202848	0.203536	0.203152



0.197947	0.1977	0.199111	0.60%
0.180895	0.177786	0.172237	-0.20%
0.618094	0.62186	0.625416	0.70%
0.578236	0.5813	0.58518	0.90%
3.004157	3.023951	3.045361	0.80%
0.846273	0.845732	0.847256	0.80%
3.85043	3.869684	3.892617	0.80%
0.003722	0.00377	0.003871	1.90%
2.932015	2.947685	2.96254	-0.50%
0.034894	0.037483	0.041977	5.30%
0.540705	0.548444	0.5562	1.60%
1.036451	1.04448	1.053263	0.20%
0.200626	0.203921	0.207153	2.00%
0.034291	0.034389	0.034489	0.30%
4.747809	4.782689	4.817517	-0.10%
0.04353	0.045365	0.047061	-0.50%
0.057317	0.059427	0.061734	4.90%
0.015259	0.015522	0.015802	15.60%
0.083923	0.085303	0.086709	8.20%
4.947838	4.988306	5.028823	0.00%
0.122825	0.124107	0.125543	8.10%
5.070663	5.112413	5.154366	0.00%
-0.074165	-0.074086	-0.074003	-1.00%
0.15829	0.159321	0.160497	0.50%
2.926753	2.942549	2.957586	-0.50%
0.034894	0.037483	0.041977	5.30%
0.60873	0.617442	0.626175	1.50%
0.003381	0.003414	0.003437	0.20%
1.225034	1.233204	1.242341	0.30%
0.213896	0.217446	0.220676	1.80%
--			
0.36589	0.371255	0.377279	1.30%
5.501973	5.544631	5.587992	0.00%
1.770433	1.785284	1.801436	0.80%
--			
0.054895	0.059061	0.062564	0.80%
0.026393	0.026393	0.026393	--
0.04353	0.045365	0.047061	-0.50%
1.89525	1.916104	1.937454	0.80%
0.074738	0.074592	0.075701	1.30%
0.12378	0.123426	0.123449	0.10%
--			
0.005484	0.005736	0.006013	--
0.204003	0.203754	0.205163	0.60%

Biofuels Heat and Coproducts  
Renewable Energy  
Hydrogen  
Electricity  
Delivered Energy  
Electricity Related Losses  
Total  
Electric Power  
Distillate Fuel Oil  
Residual Fuel Oil  
Petroleum and Other Liquids Subtotal  
Natural Gas  
Steam Coal  
Nuclear / Uranium  
Renewable Energy  
Non-biogenic Municipal Waste  
Electricity Imports  
Total  
Total Energy Consumption  
Liquefied Petroleum Gases and Other  
Motor Gasoline  
of which: E85  
Jet Fuel  
Kerosene  
Distillate Fuel Oil  
Residual Fuel Oil  
Petrochemical Feedstocks  
Other Petroleum  
Petroleum and Other Liquids Subtotal  
Natural Gas  
Natural-Gas-to-Liquids Heat and Power  
Lease and Plant Fuel  
Natural Gas Liquefaction for Export  
Pipeline Fuel Natural Gas  
Natural Gas Subtotal  
Metallurgical Coal  
Other Coal  
Coal-to-Liquids Heat and Power  
Net Coal Coke Imports  
Coal Subtotal  
Nuclear / Uranium  
Biofuels Heat and Coproducts  
Renewable Energy  
Hydrogen  
Non-biogenic Municipal Waste  
Electricity Imports  
Total



Energy Use: Delivered: All Sectors: Biofuels Heat and Coproducts: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Renewable Energy: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Hydrogen: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Electricity: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Delivered Energy: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Electricity Related Losses: Reference case without Clean Power Plan  
Energy Use: Delivered: All Sectors: Total: Reference case without Clean Power Plan

Energy Use: Electric Power: Distillate Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Electric Power: Residual Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Electric Power: Liquid Fuels Subtotal: Reference case without Clean Power Plan  
Energy Use: Electric Power: Natural Gas: Reference case without Clean Power Plan  
Energy Use: Electric Power: Steam Coal: Reference case without Clean Power Plan  
Energy Use: Electric Power: Nuclear: Reference case without Clean Power Plan  
Energy Use: Electric Power: Renewable Energy: Reference case without Clean Power Plan  
Energy Use: Electric Power: Non-biogenic Municipal Waste: Reference case without Clean Power Plan  
Energy Use: Electric Power: Electricity Imports: Reference case without Clean Power Plan  
Energy Use: Electric Power: Total: Reference case without Clean Power Plan

Energy Use: Total: Liquefied Petroleum Gases: Reference case without Clean Power Plan  
Energy Use: Total: Motor Gasoline: Reference case without Clean Power Plan  
Energy Use: Total: E85: Reference case without Clean Power Plan  
Energy Use: Total: Jet Fuel: Reference case without Clean Power Plan  
Energy Use: Total: Kerosene: Reference case without Clean Power Plan  
Energy Use: Total: Distillate Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Total: Residual Fuel Oil: Reference case without Clean Power Plan  
Energy Use: Total: Petrochemical Feedstocks: Reference case without Clean Power Plan  
Energy Use: Total: Other Petroleum: Reference case without Clean Power Plan  
Energy Use: Total: Liquid Fuels Subtotal: Reference case without Clean Power Plan  
Energy Use: Total: Natural Gas: Reference case without Clean Power Plan  
Energy Use: Total: Natural-Gas-to-Liquids Heat and Power: Reference case without Clean Power Plan  
Energy Use: Total: Lease and Plant Fuel: Reference case without Clean Power Plan  
Energy Use: Total: Liquefaction: Reference case without Clean Power Plan  
Energy Use: Total: Pipeline Natural Gas: Reference case without Clean Power Plan  
Energy Use: Total: Natural Gas Subtotal: Reference case without Clean Power Plan  
Energy Use: Total: Metallurgical Coal: Reference case without Clean Power Plan  
Energy Use: Total: Other Coal: Reference case without Clean Power Plan  
Energy Use: Total: Coal-to-Liquids Heat and Power: Reference case without Clean Power Plan  
Energy Use: Total: Net Coal Coke Imports: Reference case without Clean Power Plan  
Energy Use: Total: Coal Subtotal: Reference case without Clean Power Plan  
Energy Use: Total: Nuclear: Reference case without Clean Power Plan  
Energy Use: Total: Biofuels Heat and Coproducts: Reference case without Clean Power Plan  
Energy Use: Total: Renewable Energy: Reference case without Clean Power Plan  
Energy Use: Total: Hydrogen: Reference case without Clean Power Plan  
Energy Use: Total: Non-biogenic Municipal Waste: Reference case without Clean Power Plan  
Energy Use: Total: Electricity Imports: Reference case without Clean Power Plan  
Energy Use: Total: Total: Reference case without Clean Power Plan

2-AEO2017.101.ref_no_cpp-d120816a	quads	0.174471	0.184655	0.183556
2-AEO2017.102.ref_no_cpp-d120816a	quads	0.601069	0.584026	0.576674
2-AEO2017.103.ref_no_cpp-d120816a	quads	0.000057	0.000115	0.000181
2-AEO2017.104.ref_no_cpp-d120816a	quads	2.715674	2.740545	2.699364
2-AEO2017.105.ref_no_cpp-d120816a	quads	10.642902	10.74855	10.739765
2-AEO2017.106.ref_no_cpp-d120816a	quads	4.543543	4.048749	3.726839
2-AEO2017.107.ref_no_cpp-d120816a	quads	15.186445	14.797299	14.466604
2-AEO2017.110.				
2-AEO2017.111.ref_no_cpp-d120816a	quads	0.02015	0.025095	0.022778
2-AEO2017.112.ref_no_cpp-d120816a	quads	0.02785	0.006466	0.006466
2-AEO2017.113.ref_no_cpp-d120816a	quads	0.048	0.03156	0.029244
2-AEO2017.114.ref_no_cpp-d120816a	quads	2.3301	2.281554	2.22261
2-AEO2017.115.ref_no_cpp-d120816a	quads	2.4828	2.072407	1.735583
2-AEO2017.116.ref_no_cpp-d120816a	quads	2.076289	2.067184	2.060925
2-AEO2017.117.ref_no_cpp-d120816a	quads	0.254697	0.269259	0.310512
2-AEO2017.118.ref_no_cpp-d120816a	quads	0.06733	0.06733	0.06733
2-AEO2017.119.ref_no_cpp-d120816a	quads			
2-AEO2017.120.ref_no_cpp-d120816a	quads	7.259217	6.789294	6.426204
2-AEO2017.122.				
2-AEO2017.123.ref_no_cpp-d120816a	quads	0.121598	0.134036	0.131999
2-AEO2017.124.ref_no_cpp-d120816a	quads	3.479439	3.55194	3.558541
2-AEO2017.125.ref_no_cpp-d120816a	quads	0.004686	0.007226	0.006217
2-AEO2017.126.ref_no_cpp-d120816a	quads	0.368655	0.379592	0.37406
2-AEO2017.127.ref_no_cpp-d120816a	quads	0.002031	0.003178	0.003064
2-AEO2017.128.ref_no_cpp-d120816a	quads	1.19621	1.160345	1.20912
2-AEO2017.129.ref_no_cpp-d120816a	quads	0.114398	0.127089	0.095608
2-AEO2017.130.ref_no_cpp-d120816a	quads			
2-AEO2017.131.ref_no_cpp-d120816a	quads	0.243672	0.245521	0.250491
2-AEO2017.132.ref_no_cpp-d120816a	quads	5.526004	5.601701	5.622883
2-AEO2017.133.ref_no_cpp-d120816a	quads	3.706905	3.678081	3.646554
2-AEO2017.134.ref_no_cpp-d120816a	quads			
2-AEO2017.135.ref_no_cpp-d120816a	quads	0.065375	0.048132	0.043256
2-AEO2017.136.ref_no_cpp-d120816a	quads			
2-AEO2017.137.ref_no_cpp-d120816a	quads	0.061565	0.056091	0.04919
2-AEO2017.138.ref_no_cpp-d120816a	quads	3.833844	3.782304	3.739
2-AEO2017.139.ref_no_cpp-d120816a	quads	0.050271	0.048649	0.050798
2-AEO2017.140.ref_no_cpp-d120816a	quads	2.606208	2.192427	1.853868
2-AEO2017.141.ref_no_cpp-d120816a	quads			
2-AEO2017.142.ref_no_cpp-d120816a	quads	-0.003795	-0.000351	0.000879
2-AEO2017.143.ref_no_cpp-d120816a	quads	2.652684	2.240726	1.905545
2-AEO2017.144.ref_no_cpp-d120816a	quads	2.076289	2.067184	2.060925
2-AEO2017.145.ref_no_cpp-d120816a	quads	0.174471	0.184655	0.183556
2-AEO2017.146.ref_no_cpp-d120816a	quads	0.855766	0.853285	0.887186
2-AEO2017.147.ref_no_cpp-d120816a	quads	0.000057	0.000115	0.000181
2-AEO2017.148.ref_no_cpp-d120816a	quads	0.06733	0.06733	0.06733
2-AEO2017.149.ref_no_cpp-d120816a	quads			
2-AEO2017.150.ref_no_cpp-d120816a	quads	15.186446	14.7973	14.466606

0.179154	0.179714	0.179441	0.179331	0.17976	0.179706	0.180502	0.18139
0.587439	0.594412	0.600388	0.610441	0.621558	0.632981	0.638387	0.638564
0.000365	0.000703	0.001195	0.001827	0.002536	0.003348	0.00422	0.005145
2.7263	2.738748	2.748209	2.771096	2.806528	2.844867	2.880435	2.912474
10.851978	10.916043	10.931021	10.968797	11.013582	11.045136	11.054467	11.038449
3.950411	4.278757	4.528258	4.567831	4.671993	4.694183	4.742396	4.737727
14.802389	15.1948	15.459279	15.536628	15.685575	15.73932	15.796864	15.776176
0.023433	0.024771	0.025657	0.025275	0.025891	0.026009	0.026458	0.026329
0.006466	0.006466	0.006466	0.00645	0.00645	0.005871	0.005871	0.002878
0.029899	0.031237	0.032123	0.031725	0.03234	0.03188	0.032328	0.029207
2.240288	2.202164	2.092275	2.121348	2.107095	2.148785	2.132809	2.136626
1.956848	2.256268	2.471336	2.405766	2.530544	2.556816	2.652212	2.67882
2.050932	2.117707	2.267421	2.367982	2.388734	2.388734	2.388734	2.388734
0.331414	0.342799	0.345982	0.344775	0.352477	0.345506	0.349418	0.349484
0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733
6.676711	7.017506	7.276467	7.338927	7.47852	7.539051	7.622831	7.650201
0.130646	0.132229	0.13325	0.134457	0.135511	0.136604	0.137781	0.13894
3.576471	3.561651	3.530792	3.488123	3.437872	3.376178	3.313076	3.246752
0.004076	0.004602	0.005147	0.005739	0.006291	0.01258	0.012524	0.012422
0.379488	0.384715	0.390795	0.39803	0.405378	0.412476	0.419593	0.42641
0.002907	0.002834	0.002816	0.002825	0.002828	0.00284	0.002855	0.002863
1.22029	1.232392	1.221004	1.225415	1.233437	1.238759	1.239928	1.234969
0.093753	0.094237	0.121908	0.126114	0.130164	0.133934	0.13864	0.139632
0.254889	0.258334	0.250592	0.251252	0.253767	0.258523	0.261238	0.26273
5.658444	5.666393	5.651157	5.626216	5.598957	5.559314	5.513111	5.452296
3.691112	3.675414	3.577255	3.625621	3.630558	3.687175	3.683275	3.696334
0.044195	0.04634	0.048048	0.051234	0.052414	0.053866	0.054177	0.05335
0.015712	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.048745	0.046854	0.044675	0.044486	0.044092	0.044199	0.043569	0.042667
3.799764	3.795001	3.696371	3.747735	3.753457	3.811633	3.807415	3.818745
0.049531	0.049998	0.052145	0.055259	0.057084	0.058425	0.059382	0.059686
2.077627	2.380061	2.597104	2.534751	2.662839	2.691266	2.787231	2.813582
0.000389	0.000683	0.000745	0.00098	0.000843	0.001077	0.001133	0.00122
2.127547	2.430741	2.649994	2.59099	2.720766	2.750768	2.847746	2.874489
2.050932	2.117707	2.267421	2.367982	2.388734	2.388734	2.388734	2.388734
0.179154	0.179714	0.179441	0.179331	0.17976	0.179706	0.180502	0.18139
0.918854	0.937211	0.94637	0.955216	0.974035	0.978488	0.987805	0.988048
0.000365	0.000703	0.001195	0.001827	0.002536	0.003348	0.00422	0.005145
0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733
14.802391	15.1948	15.45928	15.536628	15.685575	15.739321	15.796864	15.776176

0.180439	0.180168	0.180715	0.180907	0.181536	0.179761	0.17959
0.637192	0.640222	0.641377	0.641178	0.639179	0.637117	0.635327
0.005987	0.006779	0.007488	0.008153	0.008798	0.009399	0.009944
2.941183	2.970651	2.997925	3.024805	3.04464	3.065426	3.087528
11.007098	10.984044	10.971626	10.968724	10.959737	10.950525	10.953749
4.710839	4.651451	4.712198	4.763917	4.690578	4.642763	4.703247
15.717937	15.635495	15.683825	15.732641	15.650314	15.593288	15.656996
0.022426	0.01958	0.016724	0.016379	0.015035	0.014927	0.014922
0.00091	0.001055	0.000016	0.000084	0.000016	0.000016	0.000061
0.023335	0.020635	0.01674	0.016463	0.015051	0.014943	0.014983
2.132078	2.055618	2.094663	2.11192	2.10733	2.123054	2.202348
2.690996	2.73458	2.762765	2.814332	2.758144	2.722926	2.704708
2.388734	2.388734	2.396074	2.403395	2.410726	2.393923	2.393923
0.349548	0.355206	0.37255	0.375282	0.376638	0.386014	0.407484
0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733
7.652022	7.622102	7.710123	7.788722	7.735218	7.708189	7.790775
0.140096	0.140721	0.141492	0.142474	0.143325	0.143811	0.144397
3.182984	3.12745	3.081953	3.041312	3.0038	2.969594	2.940127
0.017077	0.020702	0.023478	0.027602	0.031335	0.033132	0.035639
0.432498	0.439553	0.447213	0.454295	0.460535	0.467024	0.473883
0.002874	0.002888	0.002915	0.002934	0.002946	0.002954	0.002962
1.220659	1.210311	1.199477	1.191361	1.182841	1.17451	1.165518
0.141122	0.144806	0.147806	0.151722	0.155128	0.158689	0.161867
0.264292	0.266799	0.270671	0.274857	0.278979	0.283555	0.286756
5.384526	5.332528	5.291528	5.258955	5.227552	5.200138	5.175509
3.700256	3.627652	3.669647	3.69328	3.695616	3.716677	3.804007
0.050814	0.044511	0.040603	0.039123	0.036387	0.035323	0.034802
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.040965	0.037488	0.03558	0.034564	0.033027	0.03216	0.031805
3.818429	3.736045	3.772223	3.79336	3.791423	3.810553	3.897007
0.059408	0.05887	0.058248	0.057834	0.05839	0.057597	0.058555
2.825094	2.868239	2.894835	2.944699	2.887073	2.84969	2.830412
0.00125	0.001376	0.001456	0.001547	0.001669	0.001768	0.001915
2.885752	2.928485	2.954539	3.00408	2.947132	2.909055	2.890882
2.388734	2.388734	2.396074	2.403395	2.410726	2.393923	2.393923
0.180439	0.180168	0.180715	0.180907	0.181536	0.179761	0.17959
0.986739	0.995428	1.013927	1.016461	1.015817	1.02313	1.042811
0.005987	0.006779	0.007488	0.008153	0.008798	0.009399	0.009944
0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733
15.717937	15.635497	15.683825	15.73264	15.650313	15.59329	15.656995

0.180132	0.180736	0.181301	0.181594	0.182101	0.182872	0.183588
0.635748	0.637359	0.639321	0.641459	0.645692	0.650856	0.654432
0.01046	0.010954	0.011414	0.011818	0.012188	0.012538	0.012872
3.111835	3.139953	3.169113	3.198016	3.227735	3.260497	3.292624
10.977886	11.021696	11.072535	11.121342	11.178217	11.251709	11.32407
4.715759	4.739236	4.794309	4.853826	4.860365	4.89684	4.912954
15.693645	15.760932	15.866843	15.975167	16.038582	16.148548	16.237024
0.014493	0.014512	0.014607	0.014484	0.014681	0.014071	0.01409
0.000228	0.000326	0.000589	0.001072	0.001439	0.001159	0.000071
0.014721	0.014838	0.015195	0.015557	0.01612	0.01523	0.014161
2.251504	2.29639	2.353604	2.421598	2.401561	2.414347	2.477097
2.679957	2.686908	2.703611	2.688808	2.741144	2.797813	2.791973
2.36235	2.285257	2.222108	2.222108	2.19312	2.190861	2.171592
0.451733	0.528467	0.601575	0.636442	0.668825	0.671755	0.683425
0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733
7.827594	7.879189	7.963422	8.051842	8.088099	8.157337	8.205578
0.145122	0.146047	0.147045	0.147764	0.148617	0.149404	0.15019
2.918532	2.903071	2.891327	2.880346	2.874046	2.8737	2.873431
0.03849	0.040447	0.042823	0.043608	0.043447	0.04204	0.040833
0.481354	0.48921	0.497418	0.505716	0.513872	0.522955	0.531664
0.002994	0.003013	0.003038	0.003046	0.003074	0.003098	0.003117
1.160791	1.160022	1.162144	1.163146	1.166547	1.171211	1.175622
0.166063	0.169826	0.174359	0.177915	0.181757	0.184315	0.18638
0.290273	0.294672	0.299293	0.303868	0.308488	0.313675	0.318741
5.165129	5.165859	5.174623	5.181802	5.196401	5.218358	5.239146
3.860224	3.915948	3.981897	4.058815	4.045953	4.06777	4.141224
0.034737	0.03471	0.034638	0.034935	0.033743	0.032972	0.033552
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.031642	0.031577	0.031556	0.031803	0.031207	0.031104	0.031788
3.952996	4.008627	4.074484	4.151946	4.137296	4.15824	4.232957
0.060327	0.061923	0.063505	0.064514	0.066602	0.069233	0.070775
2.805321	2.812097	2.828669	2.813512	2.866097	2.923267	2.917451
0.002121	0.002325	0.002513	0.002643	0.00293	0.003238	0.003456
2.867768	2.876344	2.894688	2.880668	2.935629	2.995737	2.991682
2.36235	2.285257	2.222108	2.222108	2.19312	2.190861	2.171592
0.180132	0.180736	0.181301	0.181594	0.182101	0.182872	0.183588
1.087481	1.165825	1.240895	1.277901	1.314517	1.322612	1.337857
0.01046	0.010954	0.011414	0.011818	0.012188	0.012538	0.012872
0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733
15.693645	15.760933	15.866843	15.975167	16.038582	16.148548	16.237022

0.18406	0.182927	0.182806	0.182523	0.18242	0.18199	0.181715	0.181403
0.658089	0.663027	0.668143	0.674173	0.679656	0.684733	0.6892	0.692199
0.013205	0.013484	0.01376	0.014028	0.014294	0.014534	0.014767	0.015009
3.316653	3.340873	3.365243	3.393033	3.421855	3.450732	3.480008	3.509367
11.389553	11.45121	11.514547	11.592774	11.675752	11.761646	11.849594	11.939045
4.876789	4.847649	4.853722	4.929859	4.911531	4.993064	5.023756	5.112948
16.266342	16.298859	16.368269	16.522633	16.587284	16.754711	16.87335	17.051992
0.013604	0.013517	0.013608	0.013731	0.013812	0.013989	0.014036	0.013992
0.000016	0.000016						
0.01362	0.013532	0.013608	0.013731	0.013812	0.013989	0.014036	0.013992
2.492607	2.524132	2.531496	2.569631	2.615656	2.680894	2.701485	2.795003
2.758481	2.722144	2.731892	2.760558	2.788033	2.844183	2.844659	2.842577
2.182793	2.162548	2.133874	2.113598	2.039948	2.033103	2.033103	2.012797
0.678612	0.698835	0.740764	0.798045	0.808607	0.804297	0.843149	0.890616
0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733
8.193442	8.188521	8.218965	8.322892	8.333386	8.443795	8.503763	8.622314
0.151066	0.151899	0.152614	0.153535	0.154428	0.155358	0.156186	0.157285
2.875481	2.872539	2.874933	2.880063	2.886959	2.895363	2.9052	2.915021
0.038212	0.035735	0.031816	0.029166	0.026563	0.026609	0.029324	0.03215
0.539769	0.548114	0.556602	0.565231	0.573967	0.582966	0.591791	0.600299
0.003141	0.003173	0.003205	0.003237	0.003269	0.003304	0.003332	0.003354
1.178233	1.183233	1.189174	1.197917	1.20719	1.21563	1.223998	1.231727
0.188886	0.191621	0.194778	0.198074	0.201436	0.204703	0.207892	0.210973
0.323611	0.328531	0.333435	0.338723	0.343988	0.34927	0.354755	0.360203
5.260186	5.279111	5.304741	5.336779	5.371238	5.406594	5.443153	5.478863
4.167832	4.209627	4.224929	4.273698	4.331729	4.409698	4.442456	4.550444
0.034444	0.035176	0.036243	0.037696	0.03915	0.041854	0.045194	0.050113
0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393	0.026393
0.03248	0.033245	0.033882	0.034781	0.035714	0.037154	0.038693	0.041097
4.261148	4.304441	4.321447	4.372569	4.432986	4.515099	4.552737	4.668046
0.072845	0.074804	0.073897	0.07353	0.073347	0.073513	0.074083	0.073979
2.884257	2.848198	2.857275	2.885638	2.91286	2.968744	2.969075	2.966566
0.003817	0.004155	0.004232	0.004421	0.004598	0.004774	0.005037	0.005184
2.960918	2.927158	2.935403	2.963588	2.990804	3.047031	3.048195	3.04573
2.182793	2.162548	2.133874	2.113598	2.039948	2.033103	2.033103	2.012797
0.18406	0.182927	0.182806	0.182523	0.18242	0.18199	0.181715	0.181403
1.336701	1.361862	1.408907	1.472218	1.488262	1.48903	1.532349	1.582815
0.013205	0.013484	0.01376	0.014028	0.014294	0.014534	0.014767	0.015009
0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733	0.06733
16.266342	16.298859	16.368269	16.522633	16.587282	16.754709	16.873348	17.051994



0.180895	0.177786	0.172237	-0.20%
0.694746	0.697964	0.701036	0.50%
0.015259	0.015522	0.015802	15.60%
3.538968	3.56971	3.601765	0.80%
12.031096	12.125471	12.221449	0.40%
5.179434	5.193562	5.214835	0.70%
17.210529	17.319033	17.436283	0.50%
0.013925	0.013958	0.014017	-1.70%
			-48.50%
0.013925	0.013958	0.014017	-2.40%
2.907383	2.950279	3.016209	0.80%
2.830658	2.826012	2.832058	0.90%
2.000889	2.000889	1.985578	-0.10%
0.898217	0.904804	0.90141	3.60%
0.06733	0.06733	0.06733	0.00%
		--	
8.718402	8.763272	8.816601	0.80%
0.15829	0.159321	0.160497	0.50%
2.926753	2.942549	2.957586	-0.50%
0.034894	0.037483	0.041977	5.30%
0.60873	0.617442	0.626175	1.50%
0.003381	0.003414	0.003437	0.20%
1.238959	1.247163	1.256358	0.20%
0.213896	0.217446	0.220676	1.60%
		--	
0.36589	0.371255	0.377279	1.30%
5.515898	5.558589	5.602008	0.00%
4.677816	4.735562	4.817645	0.80%
		--	
0.054895	0.059061	0.062564	0.80%
0.026393	0.026393	0.026393	--
0.04353	0.045365	0.047061	-0.50%
4.802633	4.866382	4.953663	0.80%
0.074738	0.074592	0.075701	1.30%
2.954439	2.949438	2.955507	0.90%
		--	
0.005484	0.005736	0.006013	--
3.034661	3.029766	3.037221	0.90%
2.000889	2.000889	1.985578	-0.10%
0.180895	0.177786	0.172237	-0.20%
1.592963	1.602767	1.602446	1.90%
0.015259	0.015522	0.015802	15.60%
0.06733	0.06733	0.06733	0.00%
		--	
17.210527	17.319031	17.436285	0.50%

## Energy Use & Related Statistics

Delivered Energy Use

Total Energy Use

Ethanol Consumed in Motor Gasoline and E85

Population (millions)

Gross Domestic Product (billion 2009 dollars)

Carbon Dioxide Emissions (million metric  
tons carbon dioxide)



Energy Use & Related Statistics: Delivered Energy Use: Reference case without Clean Power Plan

Energy Use & Related Statistics: Total Energy Use: Reference case without Clean Power Plan

Energy Use & Related Statistics: Ethanol Consumed in Motor Gasoline and E85: Reference case without Clean Power Plan

Energy Use & Related Statistics: Population: Reference case without Clean Power Plan

Energy Use & Related Statistics: Gross Domestic Product: Reference case without Clean Power Plan

Energy Use & Related Statistics: Carbon Dioxide Emissions: Reference case without Clean Power Plan

2-AEO2017.152.

2-AEO2017.153.ref_no_cpp-d120816a	quads	10.642902	10.74855	10.739765
2-AEO2017.154.ref_no_cpp-d120816a	quads	15.186446	14.7973	14.466606
2-AEO2017.155.ref_no_cpp-d120816a	quads	0.254131	0.255683	0.25824
2-AEO2017.156.ref_no_cpp-d120816a	millions	63.418125	64.162834	64.923637
2-AEO2017.157.ref_no_cpp-d120816a	billion 2009 \$	16397.19922	16651.75586	17114.08594
2-AEO2017.158.				
2-AEO2017.159.ref_no_cpp-d120816a	MMmtCO2	821.070679	782.990051	748.818726

10.851978	10.916043	10.931021	10.968797	11.013582	11.045136	11.054467	11.038449
14.802391	15.1948	15.45928	15.536628	15.685575	15.739321	15.796864	15.776176
0.260179	0.262545	0.2656	0.268828	0.274816	0.279577	0.282107	0.284308
65.668549	66.399567	67.122993	67.845917	68.569611	69.293129	70.016319	70.738373
17498.88672	17817.17578	18241.73828	18743.5293	19249.80078	19714.53711	20191.77344	20622.42773
774.56897	802.896362	817.893677	813.445312	823.912842	826.618652	832.273987	831.074219

11.007098	10.984044	10.971626	10.968724	10.959737	10.950525	10.953749
15.717937	15.635497	15.683825	15.73264	15.650313	15.59329	15.656995
0.286151	0.288694	0.291311	0.29378	0.296348	0.359006	0.481792
71.458328	72.173126	72.882202	73.584625	74.280251	74.969666	75.65242
20981.94922	21373.25586	21813.58984	22235.85156	22643.79297	23051.39063	23474.19922
827.366333	823.25769	824.75354	828.2948	820.259399	815.431885	816.275269

10.977886	11.021696	11.072535	11.121342	11.178217	11.251709	11.32407
15.693645	15.760933	15.866843	15.975167	16.038582	16.148548	16.237022
0.561448	0.588989	0.60739	0.591415	0.581353	0.599173	0.620539
76.327957	76.995949	77.656441	78.311058	78.95932	79.601547	80.238747
23972.35938	24525.69727	25074.66406	25618.13281	26183.86328	26807.71289	27377.61719
816.052612	819.524963	824.988281	827.83374	832.870728	840.84436	845.361084

11.389553	11.45121	11.514547	11.592774	11.675752	11.761646	11.849594	11.939045
16.266342	16.298859	16.368269	16.522633	16.587282	16.754709	16.873348	17.051994
0.630708	0.630708	0.630708	0.630708	0.630708	0.630708	0.630708	0.630708
80.871719	81.500786	82.12709	82.751266	83.373848	83.995399	84.609268	85.201004
27907.73828	28466.02539	29052.29688	29663.33008	30259.375	30846.85156	31429.76172	31987.48828
845.036987	845.239746	848.037231	855.84491	863.714111	874.825806	879.402466	886.967285

12.031096	12.125471	12.221449	0.40%
17.210527	17.319031	17.436285	0.50%
0.630708	0.630708	0.630708	2.70%
85.779037	86.359566	86.946472	0.90%
32541.97461	33141.27344	33744.83594	2.10%
894.897827	900.054077	907.821167	0.40%

Electric Power Projections by Electricity Market Module Region

[https://www.eia.gov/outlooks/aeo/data/browser/#/?id=62-AEO2017&region=3-16&cases=ref\\_no\\_cpp&start=2015&enc](https://www.eia.gov/outlooks/aeo/data/browser/#/?id=62-AEO2017&region=3-16&cases=ref_no_cpp&start=2015&enc)

Mon Oct 02 2017 15:17:12 GMT-0400 (Eastern Daylight Time)

Source: U.S. Energy Information Administration

Net Summer Electricity Generating Capacity

(gigawatts)

Electric Power Sector

Coal

Oil and Natural Gas Steam 3

Combined Cycle

Combustion Turbine/Diesel

Nuclear Power

Pumped Storage

Fuel Cells

Renewable Sources

Distributed Generation

Total Capacity

Cumulative Planned Additions

Coal

Oil and Natural Gas Steam

Combined Cycle

Combustion Turbine/Diesel

Nuclear Power

Pumped Storage

Fuel Cells

Renewable Sources

Distributed Generation

Total Planned Additions

Cumulative Unplanned Additions

Coal

Oil and Natural Gas Steam

Combined Cycle

Combustion Turbine/Diesel

Nuclear Power

Pumped Storage

Fuel Cells

Renewable Sources

Distributed Generation

Total Unplanned Additions

Cumulative Electric Power Sector Additions

Cumulative Retirements

Coal

Oil and Natural Gas Steam

Combined Cycle

Combustion Turbine/Diesel

Nuclear Power



l=2050&f=A&linechart=ref\_no\_cpp-d120816a.5-62-AEO2017.3-16&map=&sourcekey=0

full name

Electricity: Electric Power Sector: Capacity: Coal: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Capacity: Combined Cycle: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Capacity: Combustion Turbine/Diesel: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Capacity: Nuclear: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Capacity: Pumped Storage: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Capacity: Fuel Cells: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Capacity: Renewable Sources: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Capacity: Distributed Generation: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Capacity: Total Capacity: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Coal: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Oil and Natural Gas Steam: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Combined Cycle: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Combustion Turbine/Diesel: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Nuclear: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Pumped Storage: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Fuel Cells: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Renewable Sources: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Distributed Generation: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Planned Additions: Total Planned Additions: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Coal: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Oil and Natural Gas Steam: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Combined Cycle: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Combustion Turbine/Diesel: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Nuclear: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Pumped Storage: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Fuel Cells: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Renewable Sources: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Distributed Generation: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Unplanned Additions: Total Unplanned Additions: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Total Additions: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Retirements: Coal: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Retirements: Oil and Natural Gas Steam: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Retirements: Combined Cycle: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Retirements: Combustion Turbine/Diesel: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Cumulative Retirements: Nuclear: Reference case without Clean Power Plan

api key

62-AEO2017.2.

62-AEO2017.3.

62-AEO2017.4.

62-AEO2017.5.ref\_no\_cpp-d120816a

Electricity: Electric Power Sector: Capacity: Oil and Natural Gas Steam: Reference case without Clean Power Plan

62-AEO2017.7.ref\_no\_cpp-d120816a

62-AEO2017.8.ref\_no\_cpp-d120816a

62-AEO2017.9.ref\_no\_cpp-d120816a

62-AEO2017.10.ref\_no\_cpp-d120816a

62-AEO2017.11.ref\_no\_cpp-d120816a

62-AEO2017.12.ref\_no\_cpp-d120816a

62-AEO2017.13.ref\_no\_cpp-d120816a

62-AEO2017.14.ref\_no\_cpp-d120816a

62-AEO2017.16.

62-AEO2017.17.ref\_no\_cpp-d120816a

62-AEO2017.18.ref\_no\_cpp-d120816a

62-AEO2017.19.ref\_no\_cpp-d120816a

62-AEO2017.20.ref\_no\_cpp-d120816a

62-AEO2017.21.ref\_no\_cpp-d120816a

62-AEO2017.22.ref\_no\_cpp-d120816a

62-AEO2017.23.ref\_no\_cpp-d120816a

62-AEO2017.24.ref\_no\_cpp-d120816a

62-AEO2017.25.ref\_no\_cpp-d120816a

62-AEO2017.26.ref\_no\_cpp-d120816a

62-AEO2017.27.

62-AEO2017.28.ref\_no\_cpp-d120816a

62-AEO2017.29.ref\_no\_cpp-d120816a

62-AEO2017.30.ref\_no\_cpp-d120816a

62-AEO2017.31.ref\_no\_cpp-d120816a

62-AEO2017.32.ref\_no\_cpp-d120816a

62-AEO2017.33.ref\_no\_cpp-d120816a

62-AEO2017.34.ref\_no\_cpp-d120816a

62-AEO2017.35.ref\_no\_cpp-d120816a

62-AEO2017.36.ref\_no\_cpp-d120816a

62-AEO2017.37.ref\_no\_cpp-d120816a

62-AEO2017.38.ref\_no\_cpp-d120816a

62-AEO2017.40.

62-AEO2017.41.ref\_no\_cpp-d120816a

62-AEO2017.42.ref\_no\_cpp-d120816a

62-AEO2017.43.ref\_no\_cpp-d120816a

62-AEO2017.44.ref\_no\_cpp-d120816a

62-AEO2017.45.ref\_no\_cpp-d120816a

units		2015	2016	2017	2018	2019
GW		21.111002	20.996002	20.673	19.9655	18.017002
62-AEO2017.6.ref_no_cpp-d120816a	GW		2.3867	2.384	2.384	2.384
GW		12.661402	14.032502	15.654502	14.744502	14.744502
GW		13.609999	13.609999	13.609999	13.577099	13.560998
GW		15.237803	15.237803	15.237803	15.237803	16.337805
GW		5.719	5.719	5.719	5.719	5.719
GW						
GW		5.866404	6.828104	8.520905	8.520905	8.520905
GW						
GW		76.592308	78.807411	81.79921	80.148811	79.28421
GW	--	--				
GW	--	--				
GW	--	--		1.622	1.622	1.622
GW	--	--				
GW	--	--				1.1
GW	--	--				
GW	--	--		1.6928	1.6928	1.6928
GW	--	--				
GW	--	--		3.314801	3.314801	4.414801
GW	--	--				
GW	--	--				
GW	--	--				
GW	--	--				
GW	--	--				
GW	--	--				
GW	--	--				
GW	--	--				
GW	--	--				
GW	--	--				
GW	--	--		3.314801	3.314801	4.414801
GW	--	--				
GW	--	--		0.323	1.0305	2.979
GW	--	--				
GW	--	--			0.91	0.91
GW	--	--			0.0329	0.049
GW	--	--				

[illegible]

2028	2029	2030	2031	2032	2033	2034	2035
16.193501	15.943501	15.943501	15.943501	15.943501	15.943501	15.943501	15.943501
1.576	1.576	1.576	1.576	1.576	1.576	1.576	1.576
15.456748	16.548952	17.105606	17.762497	18.363819	18.751356	19.945387	19.945387
12.7033	12.6133	12.6133	12.707792	12.699392	12.734373	12.855906	12.792906
17.526804	17.615805	17.704803	17.505188	17.505188	17.305182	16.604818	16.104338
5.719	5.719	5.719	5.719	5.719	5.719	5.719	5.719
9.984236	9.984236	9.984236	10.234022	10.234022	11.308209	12.522982	15.040785
79.159592	80.000793	80.646446	81.448006	82.040924	83.337631	85.167595	87.121925
1.622	1.622	1.622	1.622	1.622	1.622	1.622	1.622
2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1.6928	1.6928	1.6928	1.6928	1.6928	1.6928	1.6928	1.6928
5.514801	5.514801	5.514801	5.514801	5.514801	5.514801	5.514801	5.514801
1.886246	2.978452	3.535106	4.191997	4.793318	5.180857	6.374887	6.374887
			0.094492	0.094492	0.129473	0.251006	0.251006
1.463331	1.463331	1.463331	1.713118	1.713118	2.787305	4.002077	6.519879
3.349577	4.441783	4.998437	5.999606	6.600928	8.097635	10.62797	13.145772
8.864378	9.956584	10.513238	11.514407	12.115729	13.612436	16.142771	18.660572
4.8025	5.0525	5.0525	5.0525	5.0525	5.0525	5.0525	5.0525
0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808
2.084	2.084	2.084	2.084	2.084	2.084	2.084	2.084
0.906699	0.996699	0.996699	0.996699	1.005099	1.005099	1.005099	1.068099
			0.199616	0.199616	0.399624	1.099986	1.600464

2036	2037	2038	2039	2040	2041	2042	2043
15.943501	15.943501	15.943501	15.943501	15.943501	15.943501	15.943501	15.943501
1.576	1.576	1.576	1.576	1.576	1.576	1.576	0.786
19.974661	20.936487	21.572054	22.275274	22.846941	23.943192	25.015892	25.59985
12.792906	12.792906	12.792906	12.965919	13.008593	13.008593	13.324753	13.737419
16.104338	16.018869	16.13587	16.050659	16.186659	15.986787	15.787324	15.587061
5.719	5.719	5.719	5.719	5.719	5.719	5.719	5.719
16.648123	16.851988	16.946478	17.028254	17.028254	18.247213	18.38607	19.138512
88.758537	89.838753	90.685814	91.558609	92.308945	94.424286	94.96254	96.511345
1.622	1.622	1.622	1.622	1.622	1.622	1.622	1.622
2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
1.6928	1.6928	1.6928	1.6928	1.6928	1.6928	1.6928	1.6928
5.514801	5.514801	5.514801	5.514801	5.514801	5.514801	5.514801	5.514801
6.540961	7.502786	8.138354	8.841574	9.41324	10.509492	11.582192	12.16615
0.251006	0.251006	0.251006	0.43302	0.475693	0.475693	0.791853	1.204519
8.12722	8.331084	8.425574	8.50735	8.50735	9.726309	9.865166	10.617608
14.919187	16.084877	16.814934	17.781944	18.396282	20.711494	22.239212	23.988277
20.433987	21.599678	22.329735	23.296745	23.911083	26.226295	27.754013	29.503078
5.0525	5.0525	5.0525	5.0525	5.0525	5.0525	5.0525	5.0525
0.808	0.808	0.808	0.808	0.808	0.808	1.598	1.598
2.2208	2.2208	2.2208	2.2208	2.2208	2.2208	2.2208	2.2208
1.068099	1.068099	1.068099	1.077099	1.077099	1.077099	1.077099	1.077099
1.600464	1.800933	1.800933	2.001143	2.001143	2.201016	2.400479	2.600741

2044	2045	2046	2047	2048	2049	2050	Growth (2016-2050)
15.943501	15.943501	15.943501	15.943501	15.943501	15.943501	15.943501	-0.80%
0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786
26.556795	27.199266	27.290884	27.709394	28.098669	28.73665	29.503492	2.20%
14.454174	14.541835	14.769217	14.977119	15.585061	15.829622	16.037573	0.50%
14.886968	14.886968	14.886968	14.686428	14.686428	14.686428	14.686428	-0.10%
5.719	5.719	5.719	5.719	5.719	5.719	5.719	0.00%
						--	
19.36755	19.421162	21.003485	22.701553	22.761599	23.430307	23.44953	3.70%
				0.0193	0.039534	0.060319	--
97.713989	98.497742	100.399063	102.523003	103.599556	105.171051	106.185852	0.90%
						--	
						--	
1.622	1.622	1.622	1.622	1.622	1.622	1.622	--
						--	
2.2	2.2	2.2	2.2	2.2	2.2	2.2	--
						--	
						--	
1.6928	1.6928	1.6928	1.6928	1.6928	1.6928	1.6928	--
						--	
5.514801	5.514801	5.514801	5.514801	5.514801	5.514801	5.514801	--
						--	
						--	
13.123096	13.765568	13.857183	14.275696	14.664968	15.302949	16.069794	--
1.921274	2.008935	2.236316	2.783219	3.391161	3.635722	3.843672	--
						--	
						--	
						--	
10.846645	10.900258	12.48258	14.18065	14.240694	14.909403	14.928625	--
				0.0193	0.039534	0.060319	--
25.891016	26.674763	28.576078	31.239567	32.31612	33.887611	34.902405	--
31.405817	32.189564	34.090881	36.754368	37.830921	39.402412	40.417206	--
						--	
5.0525	5.0525	5.0525	5.0525	5.0525	5.0525	5.0525	--
1.598	1.598	1.598	1.598	1.598	1.598	1.598	--
2.2208	2.2208	2.2208	2.2208	2.2208	2.2208	2.2208	--
1.077099	1.077099	1.077099	1.416099	1.416099	1.416099	1.416099	--
3.300835	3.300835	3.300835	3.501375	3.501375	3.501375	3.501375	--

-3.20%



Pumped Storage  
Fuel Cells  
Renewable Sources  
Total  
End-Use Sectors  
Coal  
Petroleum  
Natural Gas  
Other Gaseous Fuels  
Renewable Sources  
Other  
Total  
Electricity Sales  
(billion kilowatthours)  
Residential  
Commercial/Other  
Industrial  
Transportation  
Total Sales  
Net Energy for Load (billion kilowatthours)  
Gross International Imports  
Gross International Exports  
Gross Interregional Electricity Imports  
Gross Interregional Electricity Exports  
Purchases from Combined Heat and Power  
Electric Power Sector Generation for Customers  
Total Net Energy for Load  
Generation by Fuel Type  
(billion kilowatthours)  
Electric Power Sector  
Coal  
Petroleum  
Natural Gas  
Nuclear  
Pumped Storage/Other  
Renewable Sources  
Distributed Generation  
Total Generation  
Sales to Customers  
Generation for Own Use  
End-Use Sectors  
Coal  
Petroleum  
Natural Gas  
Other Gaseous Fuels  
Renewable Sources  
Other

Electricity: Electric Power Sector: Cumulative Retirements: Pumped Storage: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Cumulative Retirements: Fuel Cells: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Cumulative Retirements: Renewable Sources: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Cumulative Retirements: Total: Reference case without Clean Power Plan

Electricity: End-Use Sectors: Capacity: Coal: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Capacity: Petroleum: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Capacity: Natural Gas: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Capacity: Other Gaseous Fuels: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Capacity: Renewable Sources: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Capacity: Other: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Capacity: Total: Reference case without Clean Power Plan

Electricity: Electricity Demand: Residential: Reference case without Clean Power Plan  
Electricity: Electricity Demand: Commercial/Other: Reference case without Clean Power Plan  
Electricity: Electricity Demand: Industrial: Reference case without Clean Power Plan  
Electricity: Electricity Demand: Transportation: Reference case without Clean Power Plan  
Electricity: Electricity Demand: Total Sales: Reference case without Clean Power Plan

Electricity: Net Energy for Load: Gross International Imports: Reference case without Clean Power Plan  
Electricity: Net Energy for Load: Gross International Exports: Reference case without Clean Power Plan  
Electricity: Net Energy for Load: Gross Interregional Electricity Imports: Reference case without Clean Power Plan  
Electricity: Net Energy for Load: Gross Interregional Electricity Exports: Reference case without Clean Power Plan  
Electricity: Net Energy for Load: Purchases from Combined Heat and Power: Reference case without Clean Power Plan  
Electricity: Net Energy for Load: Electric Power Sector Generation for Customer: Reference case without Clean Power Plan  
Electricity: Net Energy for Load: Total Net Energy for Load: Reference case without Clean Power Plan

Electricity: Electric Power Sector: Generation: Coal: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Petroleum: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Natural Gas: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Nuclear: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Pumped Storage/Other: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Renewable Sources: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Distributed Generation: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Total Generation: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Sales to Customers: Reference case without Clean Power Plan  
Electricity: Electric Power Sector: Generation: Generation for Own Use: Reference case without Clean Power Plan

Electricity: End-Use Sectors: Generation: Coal: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Generation: Petroleum: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Generation: Natural Gas: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Generation: Other Gaseous Fuels: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Generation: Renewable Sources: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Generation: Other: Reference case without Clean Power Plan

62-AEO2017.46.ref\_no\_cpp-d120816a  
62-AEO2017.47.ref\_no\_cpp-d120816a  
62-AEO2017.48.ref\_no\_cpp-d120816a  
62-AEO2017.49.ref\_no\_cpp-d120816a  
62-AEO2017.52.  
62-AEO2017.53.ref\_no\_cpp-d120816a  
62-AEO2017.54.ref\_no\_cpp-d120816a  
62-AEO2017.55.ref\_no\_cpp-d120816a  
62-AEO2017.56.ref\_no\_cpp-d120816a  
62-AEO2017.57.ref\_no\_cpp-d120816a  
62-AEO2017.58.ref\_no\_cpp-d120816a  
62-AEO2017.59.ref\_no\_cpp-d120816a  
62-AEO2017.61.  
62-AEO2017.62.  
62-AEO2017.63.ref\_no\_cpp-d120816a  
62-AEO2017.64.ref\_no\_cpp-d120816a  
62-AEO2017.65.ref\_no\_cpp-d120816a  
62-AEO2017.66.ref\_no\_cpp-d120816a  
62-AEO2017.67.ref\_no\_cpp-d120816a  
62-AEO2017.69.  
62-AEO2017.70.ref\_no\_cpp-d120816a  
62-AEO2017.71.ref\_no\_cpp-d120816a  
62-AEO2017.72.ref\_no\_cpp-d120816a  
62-AEO2017.73.ref\_no\_cpp-d120816a  
62-AEO2017.74.ref\_no\_cpp-d120816a  
62-AEO2017.75.ref\_no\_cpp-d120816a  
62-AEO2017.76.ref\_no\_cpp-d120816a  
62-AEO2017.78.  
62-AEO2017.79.  
62-AEO2017.80.  
62-AEO2017.81.ref\_no\_cpp-d120816a  
62-AEO2017.82.ref\_no\_cpp-d120816a  
62-AEO2017.83.ref\_no\_cpp-d120816a  
62-AEO2017.84.ref\_no\_cpp-d120816a  
62-AEO2017.85.ref\_no\_cpp-d120816a  
62-AEO2017.86.ref\_no\_cpp-d120816a  
62-AEO2017.87.ref\_no\_cpp-d120816a  
62-AEO2017.88.ref\_no\_cpp-d120816a  
62-AEO2017.89.ref\_no\_cpp-d120816a  
62-AEO2017.90.ref\_no\_cpp-d120816a  
62-AEO2017.93.  
62-AEO2017.94.ref\_no\_cpp-d120816a  
62-AEO2017.95.ref\_no\_cpp-d120816a  
62-AEO2017.96.ref\_no\_cpp-d120816a  
62-AEO2017.97.ref\_no\_cpp-d120816a  
62-AEO2017.98.ref\_no\_cpp-d120816a  
62-AEO2017.99.ref\_no\_cpp-d120816a

GW	--	--			
GW	--	--			
GW	--	--			
GW	--	--	0.323	1.9734	3.938
GW	0.151552	0.149702	0.148896	0.147556	0.145952
GW	0.012848	0.012832	0.012839	0.012834	0.012823
GW	0.108649	0.115559	0.12171	0.110981	0.117237
GW					
GW	0.887993	0.94354	1.01283	1.082526	1.153939
GW	0.072734	0.072734	0.072734	0.072734	0.072734
GW	1.233777	1.294367	1.369009	1.42663	1.502684
BkWh	125.383965	127.386932	123.505714	124.179497	123.699829
BkWh	110.702301	111.573242	109.82	110.199654	110.213165
BkWh	59.515846	58.997181	60.693104	62.846836	64.95623
BkWh	0.552693	0.651156	0.75651	0.860964	1.026962
BkWh	296.154785	298.608521	294.77533	298.086945	299.896179
BkWh					
BkWh					
BkWh	33.713139	35.470039	38.162853	27.772623	21.407776
BkWh	0.39172	0.286288	0.220661	0.348163	0.824771
BkWh	0.371627	0.379413	0.387472	0.373745	0.381837
BkWh	306.241791	282.24118	275.021545	288.679321	297.23584
BkWh	339.934845	317.804352	313.351196	316.477539	318.200684
BkWh	85.512451	66.625702	43.847092	48.960804	62.679024
BkWh	1.559176	1.710086	1.593484	1.602442	1.660022
BkWh	85.433594	80.42131	93.461044	101.290794	92.26445
BkWh	123.313004	124.191231	123.815193	123.214828	126.492668
BkWh	-1.3607	-1.088848	-1.086537	-1.086537	-1.086537
BkWh	12.21928	11.076218	14.08573	15.333507	15.815808
BkWh					
BkWh	306.676819	282.93573	275.715973	289.315796	297.825409
BkWh	306.241791	282.24118	275.021545	288.679321	297.23584
BkWh	0.435013	0.694523	0.694424	0.636477	0.589567
BkWh	0.626009	0.616793	0.612772	0.606086	0.598089
BkWh	0.020451	0.0202	0.020243	0.02018	0.020082
BkWh	0.593536	0.631753	0.6666	0.643016	0.679035
BkWh					
BkWh	4.032772	4.06136	4.147578	4.216365	4.271845
BkWh	0.251692	0.251692	0.251692	0.251692	0.251692

[illegible]

[illegible]

[illegible]

[illegible]





Total  
Sales to the Grid  
Generation for Own Use  
Total Electricity Generation  
End-Use Prices  
(2016 cents per kilowatthour)  
Residential  
Commercial  
Industrial  
Transportation  
All Sectors Average  
(nominal cents per kilowatthour)  
Residential  
Commercial  
Industrial  
Transportation  
All Sectors Average  
Prices by Service Category  
(2016 cents per kilowatthour)  
Generation  
Transmission  
Distribution  
(nominal cents per kilowatthour)  
Generation  
Transmission  
Distribution  
Fuel Consumption (quadrillion Btu)  
Coal  
Natural Gas  
Oil  
Total  
Fuel Prices to the Electric Power Sector  
(2016 dollars per million Btu)  
Coal  
Natural Gas  
Distillate Fuel Oil  
Residual Fuel Oil  
(nominal dollars per million Btu)  
Coal  
Natural Gas  
Distillate Fuel Oil  
Residual Fuel Oil  
Emissions from the Electric Power Sector  
Total Carbon (million short tons)  
Carbon Dioxide (million short tons)  
Sulfur Dioxide (million short tons)  
Nitrogen Oxide (million short tons)

Electricity: End-Use Sectors: Generation: Total: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Generation: Sales to the Grid: Reference case without Clean Power Plan  
Electricity: End-Use Sectors: Generation: Generation for Own Use: Reference case without Clean Power Plan  
Electricity: Total Electricity Generation: Reference case without Clean Power Plan

Electricity: End-Use Prices: Residential: Reference case without Clean Power Plan  
Electricity: End-Use Prices: Commercial: Reference case without Clean Power Plan  
Electricity: End-Use Prices: Industrial: Reference case without Clean Power Plan  
Electricity: End-Use Prices: Transportation: Reference case without Clean Power Plan  
Electricity: End-Use Prices: All Sectors Average: Reference case without Clean Power Plan

Electricity: End-Use Prices: Residential: Reference case without Clean Power Plan  
Electricity: End-Use Prices: Commercial: Reference case without Clean Power Plan  
Electricity: End-Use Prices: Industrial: Reference case without Clean Power Plan  
Electricity: End-Use Prices: Transportation: Reference case without Clean Power Plan  
Electricity: End-Use Prices: All Sectors Average: Reference case without Clean Power Plan

Electricity: Prices by Service Category: Generation: Reference case without Clean Power Plan  
Electricity: Prices by Service Category: Transmission: Reference case without Clean Power Plan  
Electricity: Prices by Service Category: Distribution: Reference case without Clean Power Plan

Electricity: Prices by Service Category: Generation: Reference case without Clean Power Plan  
Electricity: Prices by Service Category: Transmission: Reference case without Clean Power Plan  
Electricity: Prices by Service Category: Distribution: Reference case without Clean Power Plan

Electricity: Fuel Use: Coal: Reference case without Clean Power Plan  
Electricity: Fuel Use: Natural Gas: Reference case without Clean Power Plan  
Electricity: Fuel Use: Oil: Reference case without Clean Power Plan  
Electricity: Fuel Use: Total: Reference case without Clean Power Plan

Electricity: Fuel Prices: Coal: Reference case without Clean Power Plan  
Electricity: Fuel Prices: Natural Gas: Reference case without Clean Power Plan  
Electricity: Fuel Prices: Distillate Fuel Oil: Reference case without Clean Power Plan  
Electricity: Fuel Prices: Residual Fuel Oil: Reference case without Clean Power Plan

Electricity: Fuel Prices: Coal: Reference case without Clean Power Plan  
Electricity: Fuel Prices: Natural Gas: Reference case without Clean Power Plan  
Electricity: Fuel Prices: Distillate Fuel Oil: Reference case without Clean Power Plan  
Electricity: Fuel Prices: Residual Fuel Oil: Reference case without Clean Power Plan

Electricity: Emissions: Total Carbon: Reference case without Clean Power Plan  
Electricity: Emissions: Carbon Dioxide: Reference case without Clean Power Plan  
Electricity: Emissions: Sulfur Dioxide: Reference case without Clean Power Plan  
Electricity: Emissions: Nitrogen Oxide: Reference case without Clean Power Plan

62-AEO2017.100.ref\_no\_cpp-d120816a  
62-AEO2017.101.ref\_no\_cpp-d120816a  
62-AEO2017.102.ref\_no\_cpp-d120816a  
62-AEO2017.104.ref\_no\_cpp-d120816a  
62-AEO2017.106.  
62-AEO2017.107.  
62-AEO2017.108.ref\_no\_cpp-d120816a  
62-AEO2017.109.ref\_no\_cpp-d120816a  
62-AEO2017.110.ref\_no\_cpp-d120816a  
62-AEO2017.111.ref\_no\_cpp-d120816a  
62-AEO2017.112.ref\_no\_cpp-d120816a  
62-AEO2017.113.  
62-AEO2017.114.ref\_no\_cpp-d120816a  
62-AEO2017.115.ref\_no\_cpp-d120816a  
62-AEO2017.116.ref\_no\_cpp-d120816a  
62-AEO2017.117.ref\_no\_cpp-d120816a  
62-AEO2017.118.ref\_no\_cpp-d120816a  
62-AEO2017.120.  
62-AEO2017.121.  
62-AEO2017.122.ref\_no\_cpp-d120816a  
62-AEO2017.123.ref\_no\_cpp-d120816a  
62-AEO2017.124.ref\_no\_cpp-d120816a  
62-AEO2017.125.  
62-AEO2017.126.ref\_no\_cpp-d120816a  
62-AEO2017.127.ref\_no\_cpp-d120816a  
62-AEO2017.128.ref\_no\_cpp-d120816a  
62-AEO2017.130.  
62-AEO2017.131.ref\_no\_cpp-d120816a  
62-AEO2017.132.ref\_no\_cpp-d120816a  
62-AEO2017.133.ref\_no\_cpp-d120816a  
62-AEO2017.134.ref\_no\_cpp-d120816a  
62-AEO2017.136.  
62-AEO2017.137.  
62-AEO2017.138.ref\_no\_cpp-d120816a  
62-AEO2017.139.ref\_no\_cpp-d120816a  
62-AEO2017.140.ref\_no\_cpp-d120816a  
62-AEO2017.141.ref\_no\_cpp-d120816a  
62-AEO2017.143.  
62-AEO2017.144.ref\_no\_cpp-d120816a  
62-AEO2017.145.ref\_no\_cpp-d120816a  
62-AEO2017.146.ref\_no\_cpp-d120816a  
62-AEO2017.147.ref\_no\_cpp-d120816a  
62-AEO2017.150.  
62-AEO2017.151.ref\_no\_cpp-d120816a  
62-AEO2017.152.ref\_no\_cpp-d120816a  
62-AEO2017.153.ref\_no\_cpp-d120816a  
62-AEO2017.154.ref\_no\_cpp-d120816a

BkWh	5.52446	5.581798	5.698884	5.737339	5.820743
BkWh	0.371627	0.379413	0.387472	0.373745	0.381837
BkWh	5.152832	5.202384	5.311412	5.363594	5.438905
BkWh	312.201294	288.517517	281.414856	295.053131	303.646149
2016 cents/kWh	11.784621	11.872649	11.955381	12.584991	12.748298
2016 cents/kWh	8.868563	9.081696	9.207085	9.611286	9.649897
2016 cents/kWh	6.434236	6.145383	6.244115	6.649597	6.668645
2016 cents/kWh	8.215129	8.966403	9.898492	10.788484	11.449365
2016 cents/kWh	9.516722	9.692469	9.751508	10.230912	10.290923
nom cents/kWh	11.6199	11.872649	12.213091	13.109523	13.558526
nom cents/kWh	8.7446	9.081696	9.405552	10.011877	10.263204
nom cents/kWh	6.3443	6.145383	6.378713	6.926746	7.092477
nom cents/kWh	8.100301	8.966403	10.111863	11.238139	12.177038
nom cents/kWh	9.3837	9.692469	9.96171	10.657329	10.944971
2016 cents/kWh	6.513523	6.971933	7.075676	7.003353	6.983119
2016 cents/kWh	0.696638	0.718572	0.765022	0.800581	0.830617
2016 cents/kWh	2.306561	2.001964	1.910809	2.426978	2.477188
nom cents/kWh	6.422479	6.971933	7.228199	7.295248	7.426936
nom cents/kWh	0.686901	0.718572	0.781513	0.833949	0.883408
nom cents/kWh	2.274321	2.001964	1.951998	2.528132	2.634627
quads	0.866289	0.675019	0.451073	0.492871	0.625728
quads	0.673825	0.640515	0.733653	0.787867	0.719622
quads	0.016804	0.020335	0.018992	0.019022	0.019664
quads	1.556918	1.335869	1.203718	1.299761	1.365014
2016 \$/MMBtu	3.237725	3.023315	2.789507	3.156426	3.230269
2016 \$/MMBtu	3.8658	3.646346	4.025491	4.158013	4.26968
2016 \$/MMBtu	15.056554	11.818185	14.163211	16.18755	17.431654
2016 \$/MMBtu	10.366503	7.984254	9.119544	10.174103	10.563137
nom \$/MMBtu	3.192469	3.023315	2.849637	3.287983	3.435571
nom \$/MMBtu	3.811765	3.646346	4.112265	4.331316	4.541042
nom \$/MMBtu	14.846098	11.818185	14.468512	16.862234	18.539537
nom \$/MMBtu	10.221602	7.984254	9.316125	10.598151	11.234486
MMst	35.041023	30.176451	25.335295	27.21159	29.936913
MMst	128.483643	110.647011	92.896088	99.775879	109.768578
MMst	0.052639	0.041819	0.031872	0.041643	0.048415
MMst	0.066	0.035753	0.029796	0.032569	0.038508

5.954247	6.122491	6.286573	6.458363	6.621236	6.772294	6.943977	7.188276
0.390997	0.401515	0.412851	0.425039	0.437737	0.451115	0.465989	0.483179
5.56325	5.720975	5.873723	6.033323	6.183498	6.321179	6.477987	6.705096
314.496582	318.707642	323.289459	326.194122	331.860718	332.03363	331.604126	330.665009

12.955989	12.975379	12.891952	12.827207	12.738609	12.666225	12.611615	12.530606
9.746078	9.691918	9.563437	9.458914	9.347889	9.262927	9.202348	9.123563
6.690341	6.644852	6.589702	6.560698	6.518719	6.495571	6.469869	6.448972
12.167172	12.655872	12.872545	13.003154	13.037585	13.039824	13.035324	12.944427
10.402665	10.369135	10.263408	10.185456	10.100952	10.042241	10.001682	9.944438

14.083856	14.410924	14.619075	14.842567	15.045741	15.285992	15.558661	15.813009
10.594511	10.764194	10.844642	10.945062	11.040915	11.178786	11.352726	11.513488
7.27276	7.380013	7.472518	7.591489	7.699346	7.839056	7.98173	8.138286
13.226369	14.056068	14.597068	15.046159	15.398866	15.736862	16.081381	16.335232
11.308255	11.516335	11.638387	11.785755	11.930369	12.119287	12.338847	12.549392

7.016162	6.93588	6.814371	6.722431	6.611728	6.528048	6.464851	6.388871
0.860053	0.879774	0.88987	0.899858	0.913319	0.926485	0.938917	0.950487
2.526451	2.55348	2.559168	2.563166	2.575906	2.587708	2.597915	2.605081

7.626945	7.703239	7.727286	7.778633	7.8092	7.87825	7.975539	8.062441
0.934923	0.977109	1.009085	1.04124	1.078733	1.118111	1.158321	1.199468
2.746387	2.835988	2.902018	2.965881	3.042436	3.122925	3.204989	3.287484

0.789729	0.791971	0.85154	0.859432	0.947983	0.952491	0.953558	0.969317
0.619441	0.614474	0.588342	0.602691	0.57492	0.570151	0.554752	0.520481
0.020319	0.020295	0.020559	0.020559	0.020946	0.017577	0.012076	0.00933
1.429489	1.42674	1.46044	1.482682	1.54385	1.540219	1.520386	1.499128

3.257733	3.185575	3.13858	3.085374	3.042984	2.997589	2.974016	2.937904
4.454499	4.563202	4.677842	4.810896	4.911258	4.991539	5.089895	5.271454
18.068127	18.584097	19.030939	19.387701	19.669785	20.167744	20.598606	20.749956
10.602925	10.470623	10.245373	10.600844	10.883451	11.257548	11.586585	11.738388

3.54133	3.538014	3.559052	3.570136	3.59411	3.617583	3.668976	3.70749
4.842279	5.068058	5.304528	5.566765	5.800753	6.023944	6.279287	6.652316
19.641024	20.640169	21.580498	22.433821	23.232244	24.339054	25.412029	26.185427
11.525949	11.629052	11.617936	12.266407	12.854589	13.585958	14.294105	14.813269

33.067184	33.125488	34.49577	34.996578	37.221592	37.255936	36.976509	36.890553
121.246269	121.460144	126.484467	128.320831	136.479141	136.605087	135.580475	135.265305
0.055143	0.049223	0.050168	0.051153	0.050522	0.043228	0.039248	0.038683
0.038142	0.036833	0.039911	0.0402	0.043106	0.043151	0.04289	0.042283

7.466602	7.765566	8.084194	8.444353	8.866871	9.331369	9.823238	10.34689
0.501975	0.522727	0.545505	0.568864	0.593232	0.618384	0.644544	0.67177
6.964626	7.242839	7.538689	7.875488	8.273638	8.712984	9.178694	9.67512
338.58548	343.689575	346.028625	346.495605	352.363251	355.907532	361.451569	365.39743

12.481013	12.42776	12.38221	12.404316	12.41141	12.414229	12.449697	12.493436
9.077414	9.021206	8.983237	8.995499	8.99203	8.981249	8.995418	9.018929
6.421577	6.398439	6.378808	6.413084	6.417961	6.435047	6.484483	6.540358
12.904311	12.834475	12.760712	12.734985	12.708545	12.646968	12.603477	12.574153
9.91382	9.877727	9.851993	9.884997	9.898328	9.906873	9.942618	9.986618

16.108385	16.405506	16.717398	17.124058	17.50507	17.873301	18.280577	18.695559
11.715593	11.908618	12.128395	12.418213	12.682371	12.930692	13.208467	13.4962
8.287889	8.446383	8.61212	8.853209	9.051901	9.264815	9.521523	9.78719
16.654707	16.942398	17.228416	17.580544	17.924149	18.208384	18.50638	18.816345
12.795086	13.039285	13.301314	13.646159	13.960615	14.263351	14.599294	14.944279

6.32954	6.270967	6.222219	6.227097	6.207004	6.178117	6.178447	6.192921
0.962821	0.97385	0.984536	0.996671	1.010425	1.027659	1.045909	1.063123
2.62146	2.63291	2.645237	2.66123	2.680899	2.701097	2.718261	2.730575

8.169102	8.278111	8.400705	8.596457	8.754367	8.894901	9.072154	9.267275
1.242647	1.285549	1.329236	1.375896	1.425105	1.479565	1.535766	1.590889
3.383338	3.475625	3.571372	3.673806	3.781144	3.888887	3.991373	4.086116

0.998864	1.001022	0.986196	0.956127	0.920379	0.900037	0.939245	0.931761
0.527016	0.54121	0.549508	0.576162	0.634677	0.667503	0.691041	0.714798
0.007136	0.006705	0.005956	0.005794	0.005643	0.005302	0.005446	0.005407
1.533016	1.548936	1.54166	1.538083	1.560699	1.572843	1.635732	1.651966

2.913976	2.888216	2.888789	2.91	2.924576	2.938739	2.983164	3.017976
5.316324	5.376325	5.427634	5.486707	5.468369	5.427743	5.438128	5.476472
20.761665	21.035891	21.464365	21.902315	22.338736	22.261492	22.584698	22.727158
11.767356	11.988345	12.374551	12.715327	13.109318	13.065008	13.386085	13.53843

3.760868	3.812645	3.900195	4.017231	4.124826	4.23103	4.380344	4.516191
6.861414	7.097122	7.327926	7.574354	7.712594	7.814556	7.985102	8.195159
26.795654	27.768835	28.979343	30.23597	31.506582	32.050831	33.162354	34.009609
15.187317	15.825448	16.707056	17.553406	18.489399	18.810255	19.655523	20.259319

37.877937	38.211712	37.942467	37.481529	37.359699	37.284653	38.82106	38.9799
138.885757	140.109451	139.122375	137.432251	136.985504	136.710327	142.343887	142.926376
0.037151	0.034444	0.032093	0.031552	0.03092	0.03062	0.031191	0.031023
0.042601	0.041311	0.039456	0.038593	0.038579	0.037094	0.037566	0.037367

10.903346	11.512685	12.161957	12.831323	13.543036	14.304547	15.110187	15.957911
0.70018	0.730424	0.762386	0.796456	0.832788	0.872804	0.916851	0.966555
10.203166	10.782262	11.399569	12.034865	12.710246	13.431742	14.193334	14.991355
371.141449	378.045441	379.155823	384.29071	386.470612	393.05661	398.502472	403.63031

12.524201	12.558182	12.585933	12.608752	12.657721	12.746369	12.811078	12.850311
9.033301	9.044703	9.047822	9.052238	9.053613	9.088405	9.109619	9.108892
6.568311	6.59235	6.603982	6.622259	6.629281	6.674133	6.701514	6.715683
12.560015	12.549525	12.538859	12.514976	12.495308	12.499943	12.495234	12.459015
10.017418	10.045566	10.064376	10.084533	10.107287	10.166446	10.209236	10.228985

19.096121	19.505796	19.917089	20.337208	20.8167	21.386993	21.938169	22.465048
13.773414	14.04854	14.31807	14.600752	14.889438	15.249334	15.599652	15.924259
10.014952	10.239462	10.450723	10.681331	10.902418	11.198456	11.475923	11.740426
19.150726	19.49235	19.842596	20.185953	20.549599	20.973518	21.397308	21.780979
15.273933	15.603114	15.926755	16.265785	16.622297	17.058168	17.482677	17.882418

6.196485	6.197347	6.192299	6.189823	6.182704	6.207382	6.221859	6.219592
1.077956	1.090423	1.101106	1.110833	1.123479	1.139363	1.14955	1.155857
2.742978	2.757794	2.770971	2.783876	2.801105	2.819701	2.837827	2.853536

9.448013	9.625931	9.799239	9.983836	10.167984	10.415299	10.654544	10.873155
1.6436	1.693683	1.742487	1.791712	1.847657	1.911725	1.968533	2.02068
4.182322	4.2835	4.385028	4.490236	4.606657	4.731146	4.859601	4.988582

0.923783	0.974209	0.969286	0.962393	0.946031	0.948237	0.947644	0.947971
0.730541	0.732849	0.721046	0.756271	0.76623	0.797231	0.826028	0.854125
0.005354	0.005582	0.004536	0.0045	0.004436	0.00443	0.004427	0.004429
1.659679	1.71264	1.694868	1.723164	1.716697	1.749897	1.778099	1.806525

3.068255	3.089454	3.110066	3.12747	3.146606	3.160369	3.169854	3.175927
5.514531	5.641182	5.699663	5.72997	5.738228	5.762841	5.817252	5.808934
23.292974	23.386147	23.540583	23.905855	24.117577	24.149462	24.186405	24.250278
14.002671	14.086319	14.236699	14.529118	14.733919	14.807547	14.849573	14.918742

4.678284	4.798646	4.921643	5.044435	5.174862	5.30275	5.428176	5.552189
8.408213	8.762076	9.019649	9.242119	9.437005	9.669409	9.961679	10.155239
35.515675	36.324162	37.252689	38.558804	39.66341	40.520123	41.417706	42.394588
21.350399	21.879353	22.529406	23.43465	24.231188	24.845421	25.428965	26.0811

38.985207	40.509098	40.145195	40.50676	40.182201	40.734673	41.12109	41.630909
142.945847	148.533295	147.199051	148.524994	147.334793	149.360519	150.77742	152.646698
0.030979	0.031969	0.031919	0.031778	0.031404	0.031481	0.031466	0.031472
0.037137	0.038906	0.037655	0.037509	0.037065	0.036826	0.037412	0.037936



16.85034	17.792124	18.77639	19.803455	20.888523	22.033731	23.238447	4.30%
1.024281	1.083046	1.142996	1.203898	1.266028	1.329414	1.394311	3.90%
15.826058	16.709078	17.633392	18.599556	19.622494	20.704317	21.844135	4.30%
407.30899	416.512512	421.275574	429.901276	430.786194	435.000732	441.025726	1.30%
12.900382	12.925392	12.963897	12.9887	13.022117	13.054326	13.090693	0.30%
9.12152	9.11416	9.11914	9.111186	9.104392	9.103582	9.102099	0.00%
6.752035	6.749551	6.765794	6.776754	6.787317	6.806729	6.819451	0.30%
12.424186	12.398248	12.37468	12.326197	12.282837	12.24594	12.220251	0.90%
10.262928	10.272996	10.296927	10.308232	10.322512	10.339833	10.356816	0.20%
23.03264	23.575785	24.16317	24.741995	25.344765	25.957985	26.586639	2.40%
16.285772	16.624136	16.996996	17.355772	17.719751	18.102095	18.485977	2.10%
12.05524	12.311113	12.61064	12.908945	13.21006	13.534899	13.850016	2.40%
22.18243	22.614279	23.064936	23.480001	23.905914	24.350544	24.818811	3.00%
18.323669	18.737841	19.192253	19.636009	20.090561	20.560329	21.034254	2.30%
6.234804	6.228444	6.239022	6.236158	6.228717	6.243093	6.259952	-0.30%
1.16083	1.164659	1.168078	1.171137	1.175117	1.178902	1.180964	1.50%
2.867295	2.879894	2.889828	2.900936	2.918678	2.917837	2.9159	1.10%
11.131763	11.36062	11.628798	11.879172	12.122866	12.414132	12.713696	1.80%
2.072572	2.124326	2.17716	2.230883	2.287114	2.344198	2.398488	3.60%
5.119335	5.252897	5.386297	5.525953	5.680582	5.801998	5.922069	3.20%
0.972539	1.004633	1.004092	1.005916	0.985602	1.000609	1.003479	1.20%
0.885199	0.915687	0.923735	0.960774	0.965077	0.967595	0.991825	1.30%
0.004547	0.004709	0.004694	0.004684	0.004626	0.004683	0.004709	-4.20%
1.862285	1.925029	1.932521	1.971374	1.955305	1.972887	2.000012	1.20%
3.184159	3.19433	3.204642	3.218147	3.228226	3.24101	3.255359	0.20%
5.856686	5.894825	5.914473	5.931929	5.97398	6.034529	6.102457	1.50%
24.338148	24.446487	24.607658	24.906672	25.025965	25.134474	25.389404	2.30%
14.981933	15.0601	15.196974	15.439444	15.594992	15.707885	15.968205	2.10%
5.685071	5.826425	5.973073	6.130203	6.283051	6.444614	6.611495	2.30%
10.456663	10.752103	11.023877	11.299649	11.627075	11.999411	12.39383	3.70%
43.453896	44.590145	45.865761	47.444374	48.707687	49.978855	51.5648	4.40%
26.74909	27.469471	28.325359	29.410381	30.352314	31.234476	32.430748	4.20%
42.858017	44.224953	44.393818	45.037056	44.508839	44.995003	45.474083	1.20%
157.146179	162.158173	162.777374	165.135956	163.199036	164.981781	166.738388	1.20%
0.031821	0.032425	0.032503	0.03258	0.032225	0.032436	0.032465	-0.70%
0.039427	0.040356	0.040489	0.041113	0.040194	0.040468	0.040929	0.40%



Mercury (short tons)

Electricity: Emissions: Mercury: Reference case without Clean Power Plan



st	1.562344	0.289828	0.196159	0.211415	0.247486
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0.310738	0.31234	0.329727	0.334521	0.363602	0.357975	0.35643	0.360397
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0.377991	0.380299	0.36402	0.354276	0.341753	0.335165	0.348121	0.34475
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0.340189	0.356448	0.35526	0.351585	0.346865	0.346169	0.346252	0.346134
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0.355659	0.365316	0.364712	0.365973	0.358174	0.36497	0.366412	0.70%
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